ORDER NO. VMD9807042C8

Service Manual

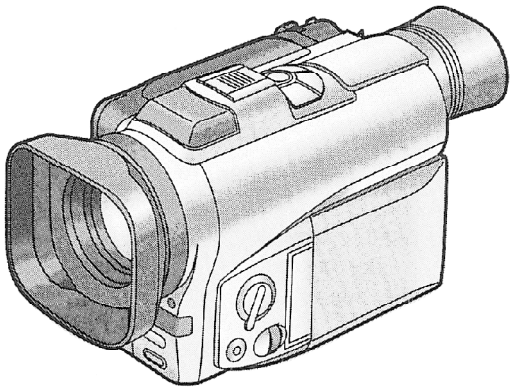
Digital Video Camera/Recorder

Panasonic Mini DV PAL

NV-DA1

DJ-MECHANISM

EG/B/EN/ENA



SPECIFICATIONS

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

1.1. INTRODUCTION 1

Note 1:
These movie camera uses AC Adaptor VW-AD7E/B/A.
The Service Manual for AC Adaptor is separate volume.

Order number for VW-AD7E/B/A	VMD9807039C8

Note 2:
Adjustment proocedure for Mechanism chassis is separate volume.
Please refer to following manual for detail of adjustment procedure for Mechanism Chassis.

DJ Mechanism Chassis	VMD9706005A8

1.2. INTRODUCTION 2

Note: NV-DA1
NV-DA1 series has to versions depends on countries.
Detail as follows.

Model-No. (Version)	NV-DA1EN	NV-DA1ENA
PACKING CASE	VPK2185	VPK2186
AC-CABLE	VJA0998	VJA0754

2. CAUTION FOR AC CORD (VJA0940 TYPE)

2.1. Information for Your Safety

IMPORTANT
Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

FOR YOUR SAFETY
DO NOT REMOVE THE OUTER COVER
To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2.2. Caution for AC Mains Lead

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362
Check for the ASRA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.
If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safety.
There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.
If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.

2.2.1. IMPORTANT

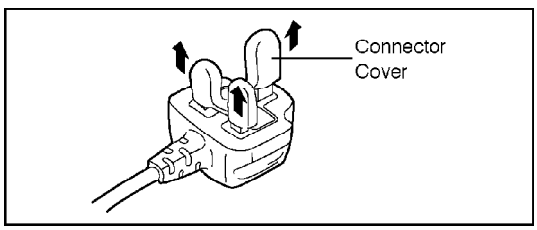
The wires in this mains lead are coloured in accordance with the following code:

Blue	**Neutral**
Brown	**Live**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol.

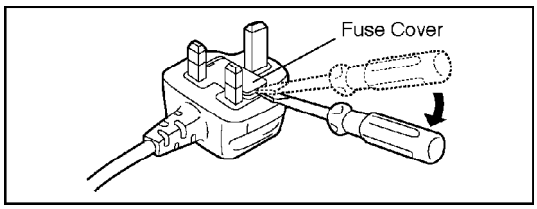
2.2.2. Before use

remove the Connector Cover as follows.

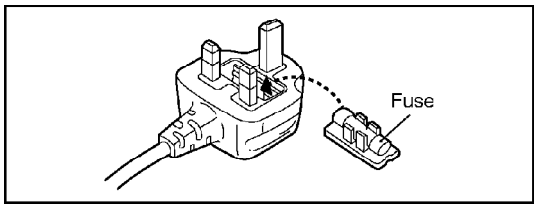


2.2.3. How to replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.

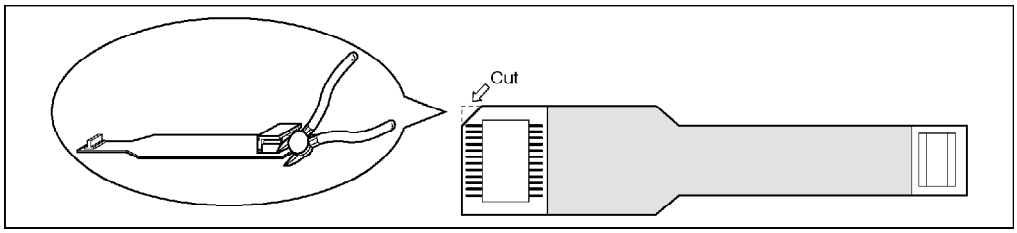


3. SERVICE INFORMATION

3.1. Service Extension Cables

No.	Part No.	Pin	Part Name	Connection	Q'ty	Rem
1	VFK1460	20	Flat Cable	PS201 (Camera/Power) - PS291 (CCD)	1	
2	VFK1443	18	Flat Cable	FP701 (Camera/Power) - Lens Flex.	1	
3	VFK1311	80	Flat Cable	PP301 (Camera/Power) - PS3001 (VTR Main)	1	
4	VFK1365	70	Flat Cable	PP302 (Camera/Power) - PS3002 (VTR Main)	1	
5	VFK1467	12	Flat Cable	P101 (Camera/Power) - P1201 (RS232C)	1	
6	VFK0977	20	Flat Cable	FP303 (Camera/Power) - Camera Operation Unit	1	
7	VFK1443	18	Flat Cable	FP3501 (VTR Main) - FP801 (EVF-B)	1	
8	VFK1387	30	Flat Cable	PP4802 (VTR Main) - PS4902 (Speaker Amp)	1	
9	VFK1367	50	Flat Cable	PP2001 (VTR Main) - PS2001 (Drive)	1	
10	VFK1284	24	Flat Cable	FP3201 (VTR Main) - Head Amp	1	
11	VFK1173	14	Flat Cable	FP6002 (VTR Main) - FP6701 (Rear Operation)	1	
12	VFK1464	7	Flat Cable	FP6001 (VTR Main) - FP6801 (Top Operation)	1	
13	VFKW0F0189	10	Attachement Connecor	FP3504 (VTR Main) - PS1201 (RS232C)	1	
	VFKW0F0190	10	Attachement Connecor			
	VFKW0F0001	28	Common Cable			

Note:
When connecting the VFK1387, cut the base of connector with the nipper as follows.



3.2. Service Position

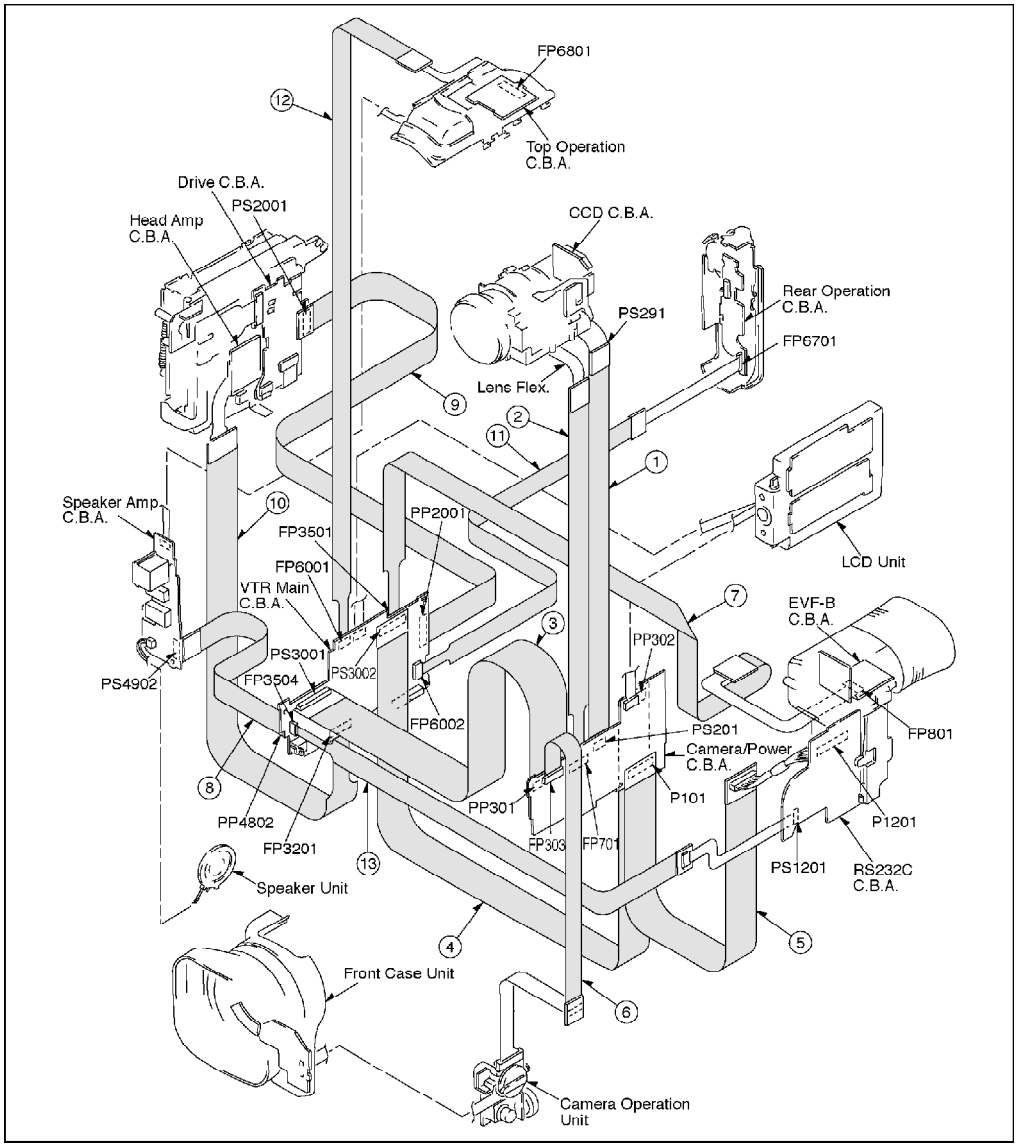


Fig.T1

3.3. Preparation for Electrical Adjustment

Remove Screw and EVR Cover which is located on the Side Case Unit as follows.

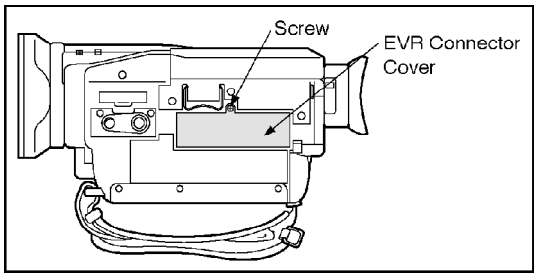


Fig.E1

Then connect the following cables as shown in Fig. E2.

Part No.	Part Name	Q'ty	Remarks
VFK1395	232C (M3) I/F Cable	1	
VFK1308E	Measuring Board	1	
VFK1309	EVR Connector Board	1	
VFK1317	30 Pin Flat Cable	2	
VJA0941	DC Output Cable	1	For AC Adapter
VFK1164TAR3A	Setup Ring (Φ 30.5mm)	1	For Collimator

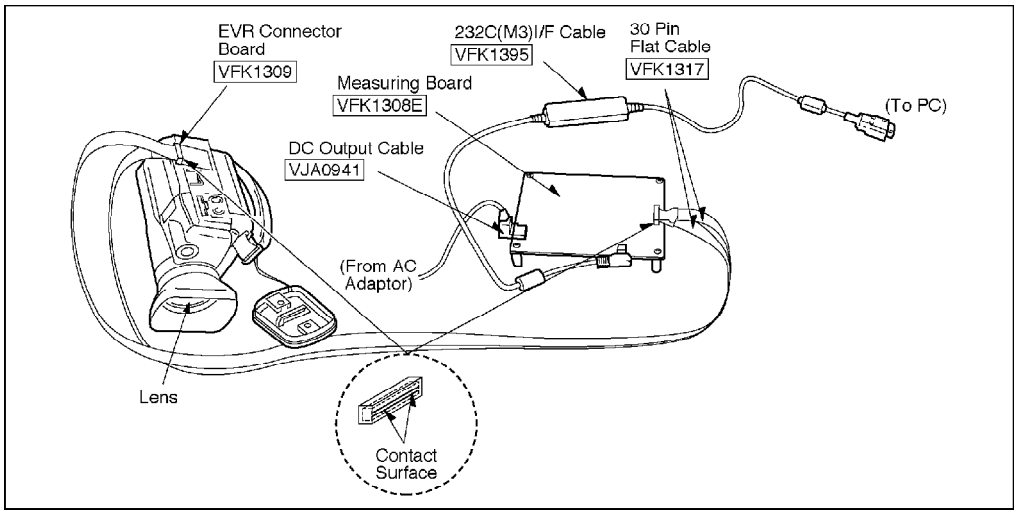


Fig.E2

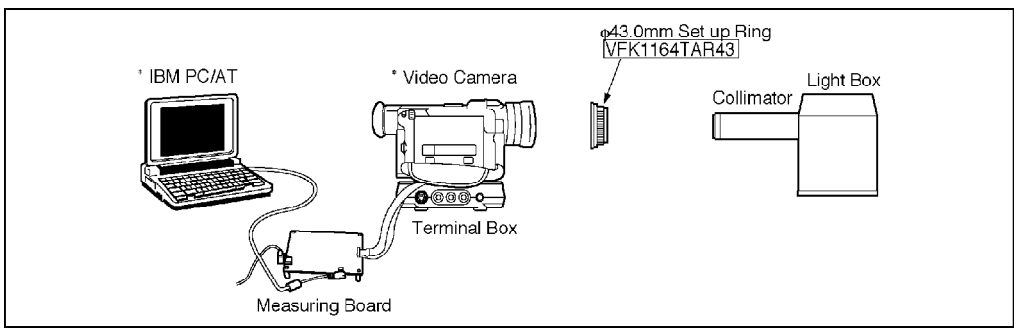
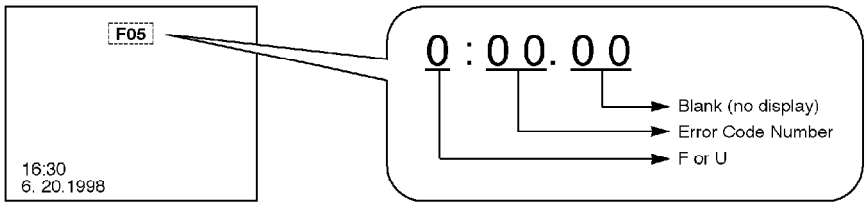


Fig.E3

3.4. Service Mode

When undesirable conditions occurred, the error code is displayed on the EVF or LCD Monitor. Also, the Camera LED is flashed according to the error code as follows.



EVF or LCD Monitor

DISPLAY	CONDITION	POWER OFF TIMING / POWER LED FLASHING TIMIN
F01	T-Reel Lock	After 1 minute flashing the LED
F02	S-Reel Lock	After 1 minute flashing the LED
F03	Unloading Lock	After 1 minute flashing the LED
F04	Loading Lock	After 1 minute flashing the LED
F05	Cylinder Lock	After 1 minute flashing the LED
F31	Data Transmission Error	Not turning OFF
F51	Focus Motor Lock	Not turning OFF / Power LED is flashed at 1 Hz timing
F52	Zoom Motor Lock	Not turning OFF / Power LED is flashed at 1 Hz timing
U10	Dew Detection	After 18 seconds flashing the LED / Power LED is flashed at timing
U11	Head Clogging	Not turning OFF

3.5. How to replace the Lithium Battery

(Procedure)

1. **Remove the RS232C C.B.A. from Rear Jack Unit. (Refer to Disassembly Procedures)**
2. **Unsolder the Lithium Battery "VL2020/1HF" and then replace the new one. (See Fig. B1)**

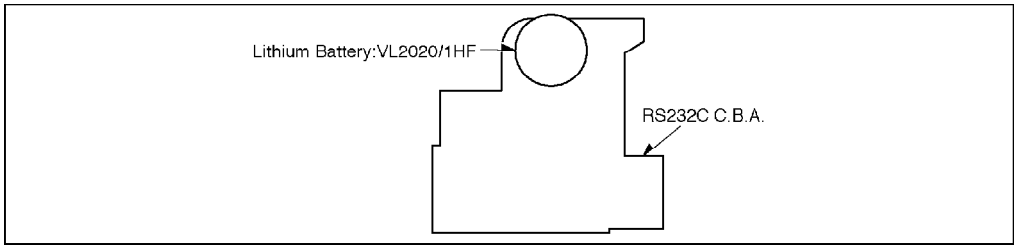


Fig.B1

Note:

The lithium battery is a critical component (Type No.: VL2020/1HF Manufactured by Panasonic.) / It must never be subjected to excessive heat or discharge. / It must therefore only be fitted in equipment designed specifically for its use. / Replacement batteries must be of the same type and manufacture. / They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed. / Do not attempt to re-charge the old battery or re-use it for any other purpose. / It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

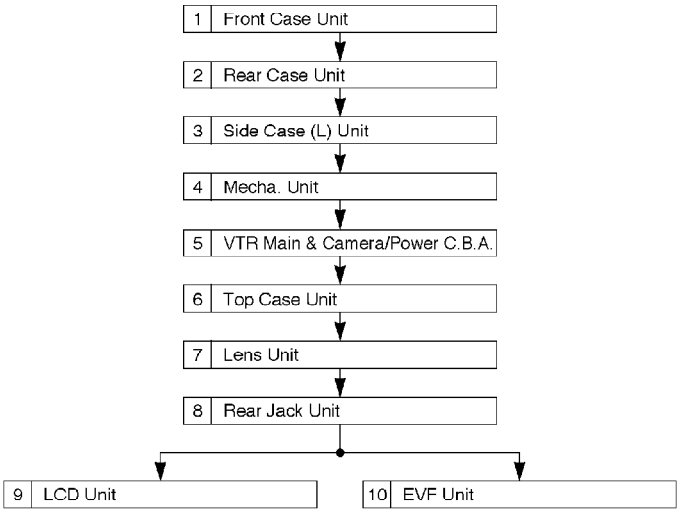
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

4. GENERAL DESCRIPTION

5. ADJUSTMENT PROCEDURES

5.1. DISASSEMBLE FLOW CHART

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in the reverse order.



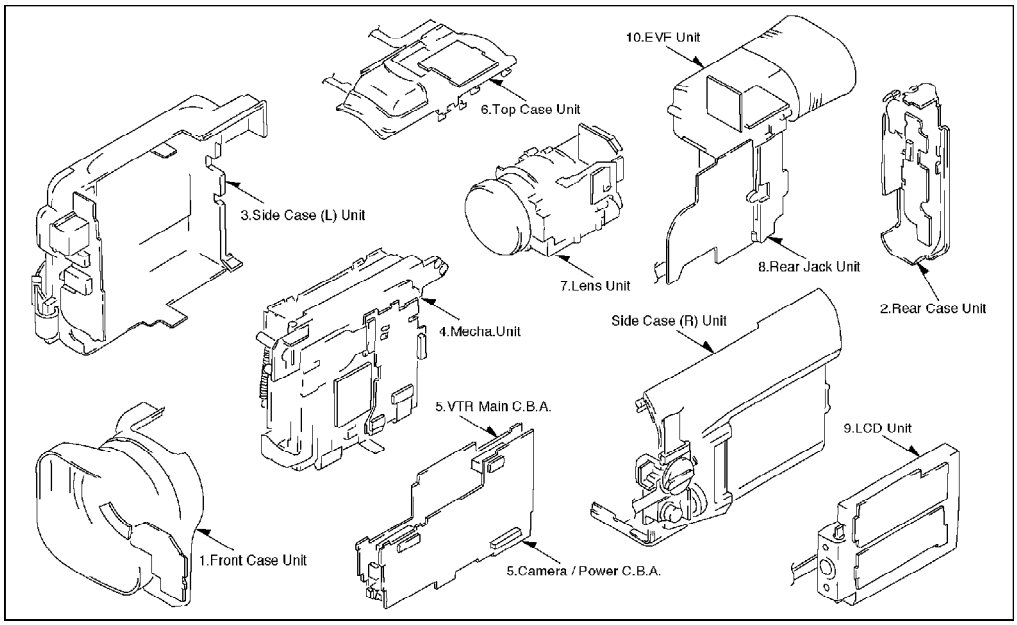


Fig.F1

5.2. DISASSEMBLY PROCEDURES

Flow-chart Disassembly procedure

No.	Item / Part	Fig.	Removal (Screw & Other)
(1)	Front Case Unit	Fig.1	4-Screws (A)
		Fig.2-1	Open the DV Terminal Cover. 1-Screw (B) 3-Screws (C)
		Fig.2-2	Unlock----Locking Tabs. Disconnect FP6401
(2)	Rear Case Unit & Cassette Cover Unit	Fig.3-1	4-Screws (D/E)
		Fig.3-2	Disconnect FP6701 1-Screw (F) Unlock----Locking Tabs for Screw 2-Screws (G) 3-Screws (H/I/J)
(3)	Speaker Amp C.B.A. & Side Case (L) Unit	Fig.3-3	Remove the Side Case (L) Unit. 3-Screws (K) 2-Screws (L) Disconnect the following Connectors. P3001, FP4802, FP4901 Remove the Speaker Amp C.B.A.
(4)	Mecha. Unit	Fig.3-3	2-Screws (M/N)
		Fig.3-4	Disconnect----PP2001/ FP3201 Remove the Mecha. Unit.

No.	Item / Part	Fig.	Removal (Screw & Other)
(5)	VTR Main C.B.A. & Camera/ Power C.B.A.	Fig.4-1	2-Screws (O) Disconnect the following Connectors. FP3501, FP6002, FP6001, PS3002, PS3001, FP3504. (FP3002/PS3001/ FP3504 located on Button Side of VTR Main C.B.A.)
		Fig.4-2	Remove the VTR Main C.B.A. 1-Screw (P) Disconnect the following Connectors. FP304, PS201, FP701, FP303, P101 Remove the Camera/ Power C.B.A.
(6)	Top Case Unit	Fig.5	Slide the Top Case Unit. Unlock----4 locking Tabs.
(7)	Lens Unit	Fig.6	4-Screws (Q/R) Remove the Lens Frame, Lens Unit.
(8)	Top Frame & Camera Frame & Rear Jack Unit	Fig.7-1	3-Screws (S/T)
		Fig.7-2	1-Screw (U) Remove the Top Frame /Camera Frame.
		Fig.8-1	3-Screws (V/W)
		Fig.8-2	4-Screws (X/Y)
		Fig.8-3	3-Screws (Z)
		Fig.8-4	Remove the LCD Lock Cover. Remove the Rear Jack Unit with EVF Unit.
		Fig.8-5	Disconnect the FP1201. Remove the EVF Flex. From Remove the EVF Flex. from

No.	Item / Part	Fig.	Removal (Screw & Other)
(9)	LCD Unit	Fig.9-1	2-Screws (a)
		Fig.9-2	4-Screw (b)
		Fig.9-3	Remove the LCD Unit from Side Case (R) Unit.
		Fig.9-4	4-Screws (c)
		Fig.9-5	Disconnect the following Connectors. FP901, FP903, FP904, FP905
		Fig.9-6	3-Screws (d/e) Unsolder the 2-Wires from LCD panel.
(10)	EVF Unit	Fig.10-1	4-Screws (f) Remove the EVF Unit.
		Fig.10-2	4-Screws (g/h) Remove the Eye Cap holder and EVF Case Unit.
		Fig.10-3	Disconnect the FP801. Unlock----Locking Tabs. Remove the EVF-B C.B.A.
		Fig.10-4	Unlock----Locking Tabs for LCD Shield Case. Unlock----Locking Tabs for EVF-A C.B.A. Remove the EVF-A C.B.A.and LCD Panel, LCD Mask from EVF Case Unit.

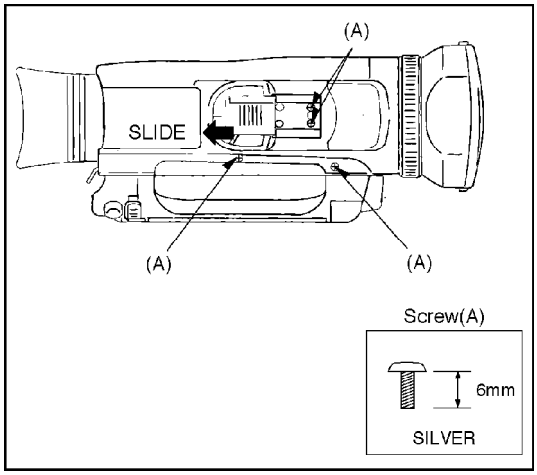


Fig.1

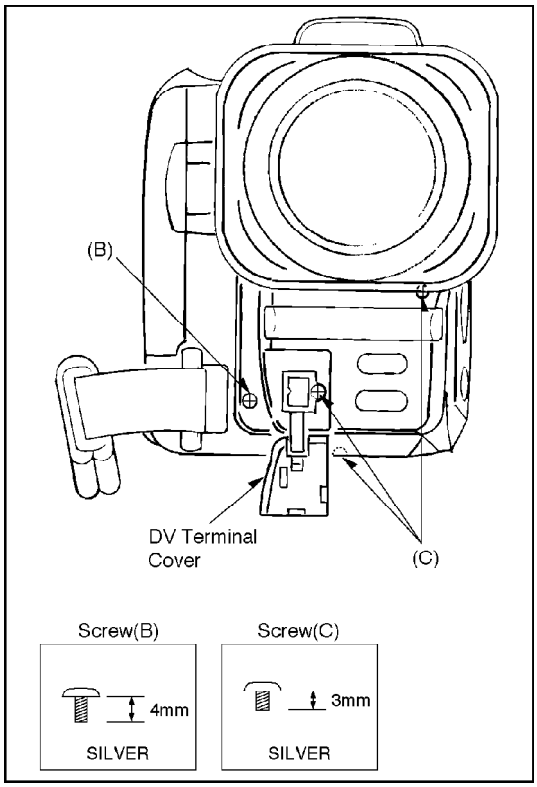


Fig.2-1

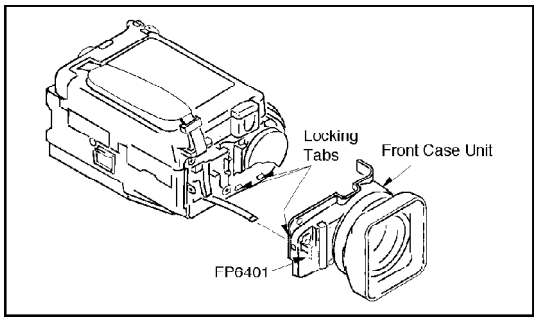


Fig.2-2

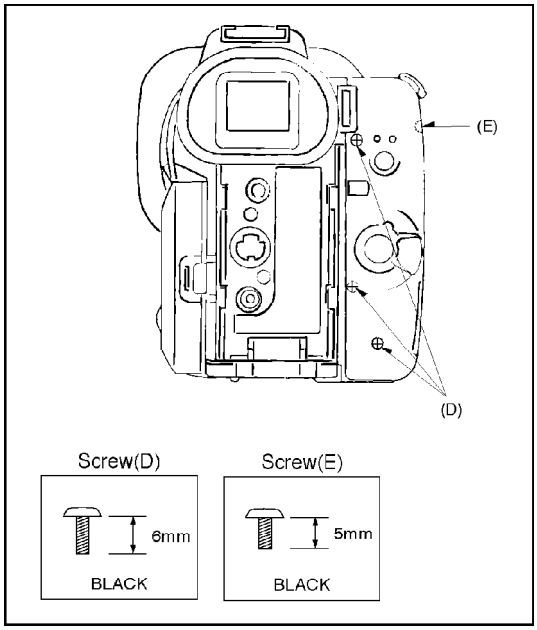

(E)
(D)
Screw(D)
6mm
BLACK
Screw(E)
5mm
BLACK

Fig.3-1

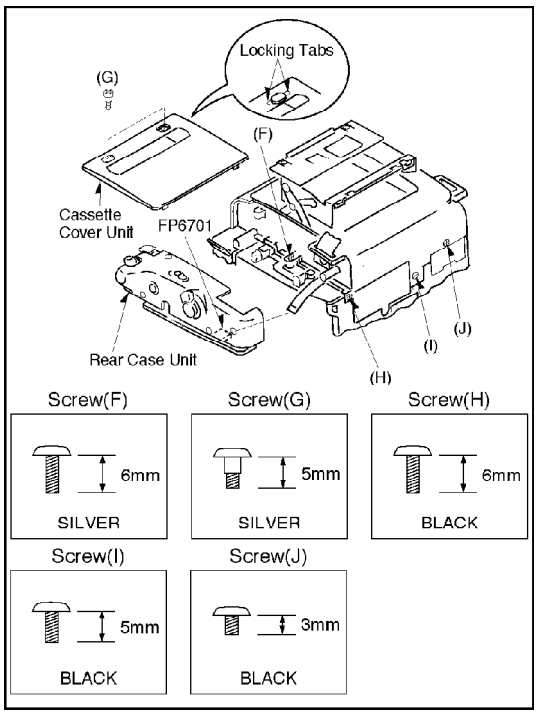

Locking Tabs
(G)
(F)
Cassette
Cover Unit
FP6701
Rear Case Unit
(I)
(J)
(H)
Screw(F)
6mm
SILVER
Screw(G)
5mm
SILVER
Screw(H)
6mm
BLACK
Screw(I)
5mm
BLACK
Screw(J)
3mm
BLACK

Fig.3-2

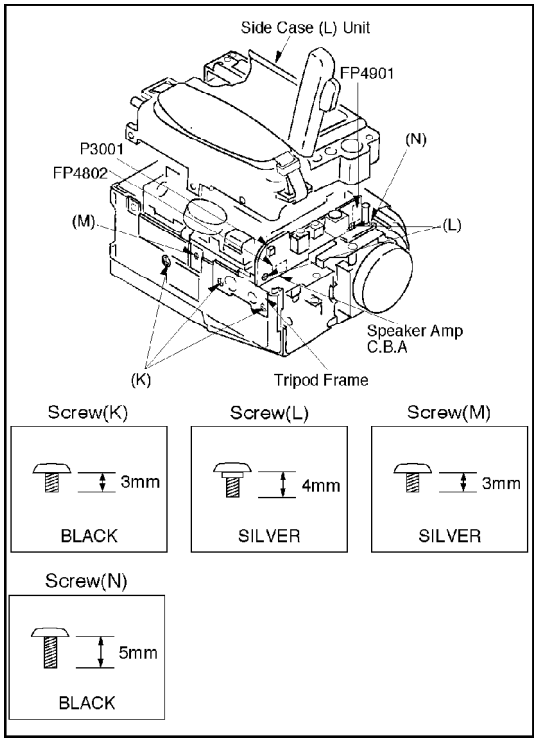

Side Case (L) Unit
FP4901
P3001
FP4802
(N)
(M)
(L)
Speaker Amp
C.B.A
(K)
Tripod Frame
Screw(K)
3mm
BLACK
Screw(L)
4mm
SILVER
Screw(M)
3mm
SILVER
Screw(N)
5mm
BLACK

Fig.3-3

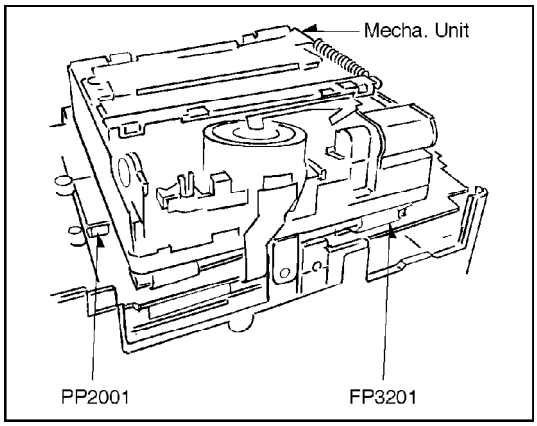

Mecha. Unit
PP2001
FP3201

Fig.3-4

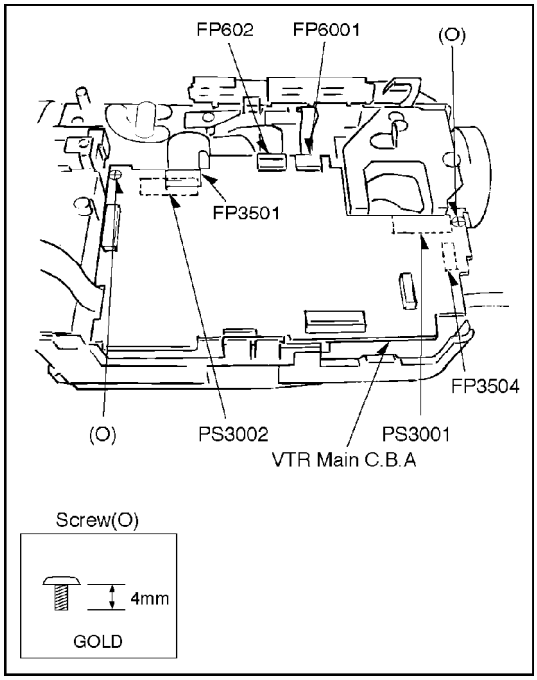

FP602
FP6001
(O)
FP3501
FP3504
(O)
PS3002
PS3001
VTR Main C.B.A
Screw(O)
4mm
GOLD

Fig.4-1

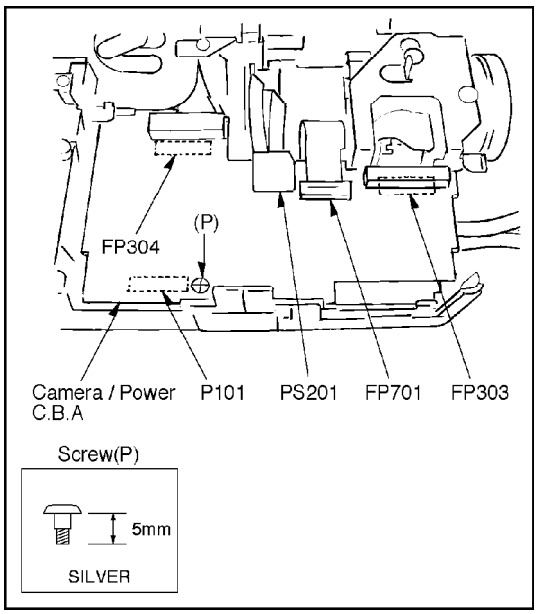

(P)
FP304
Camera / Power C.B.A
P101
PS201
FP701
FP303
Screw(P)
5mm
SILVER

Fig.4-2

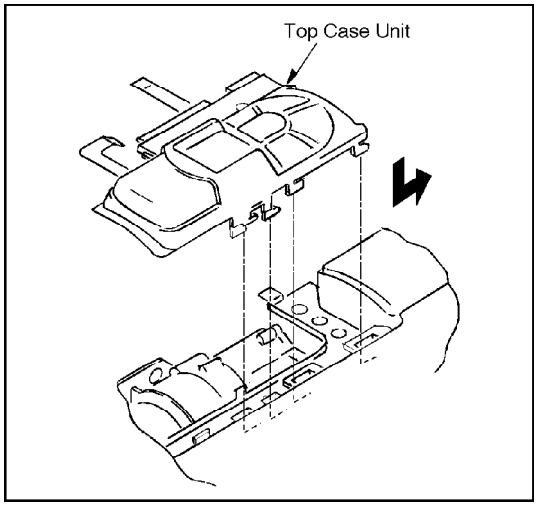

Top Case Unit

Fig.5

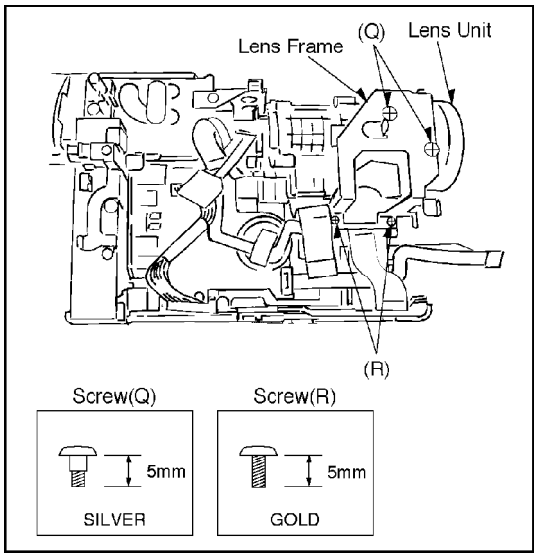

Lens Frame
(Q)
Lens Unit
(R)
Screw(Q)
Screw(R)
5mm
SILVER
5mm
GOLD

Fig.6

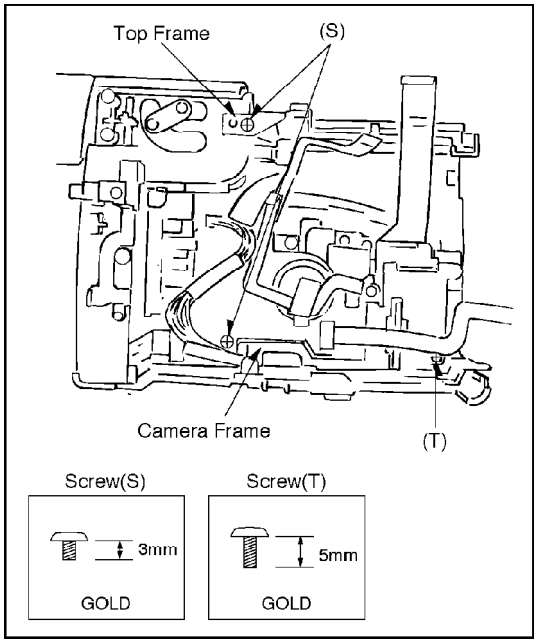

Top Frame
(S)
Camera Frame
(T)
Screw(S)
3mm
GOLD
Screw(T)
5mm
GOLD

Fig.7-1

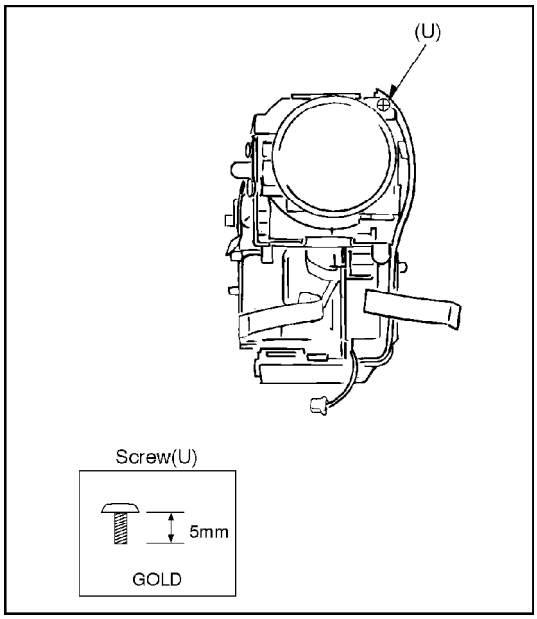

(U)
Screw(U)
5mm
GOLD

Fig.7-2

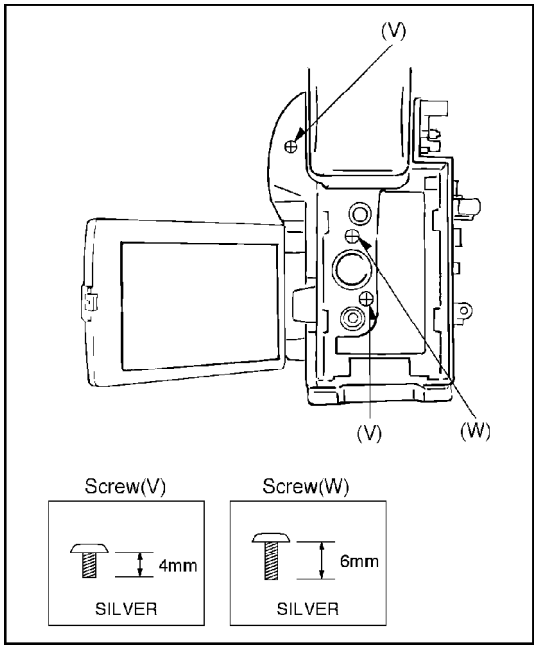

(V)
(V)
(W)
Screw(V)
4mm
SILVER
Screw(W)
6mm
SILVER

Fig.8-1

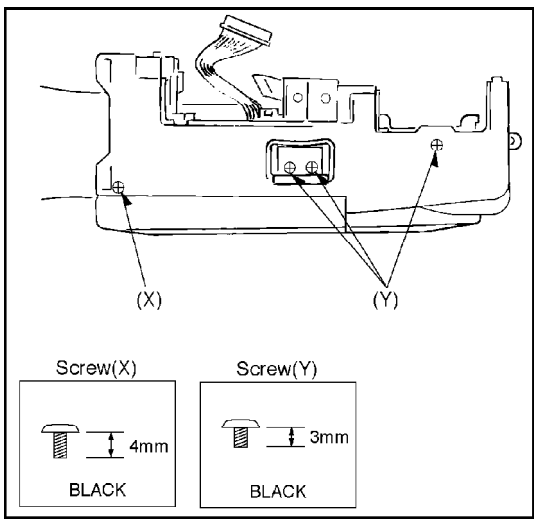

(X)
(Y)
Screw(X)
4mm
BLACK
Screw(Y)
3mm
BLACK

Fig.8-2

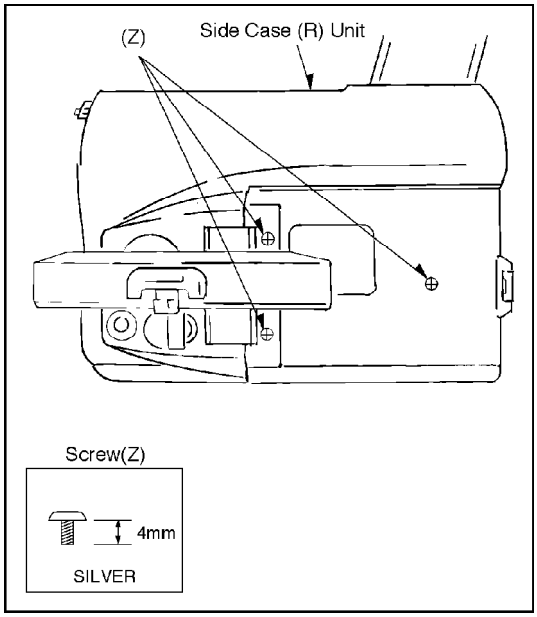


Fig.8-3

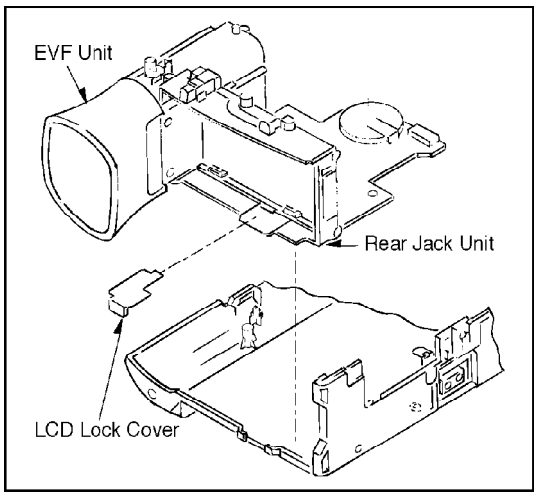


Fig.8-4

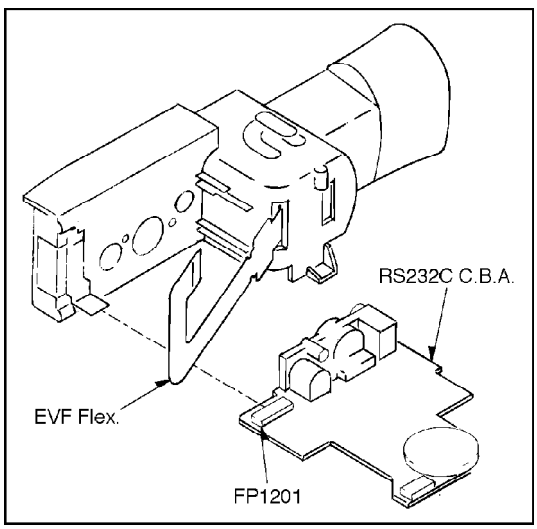


Fig.8-5

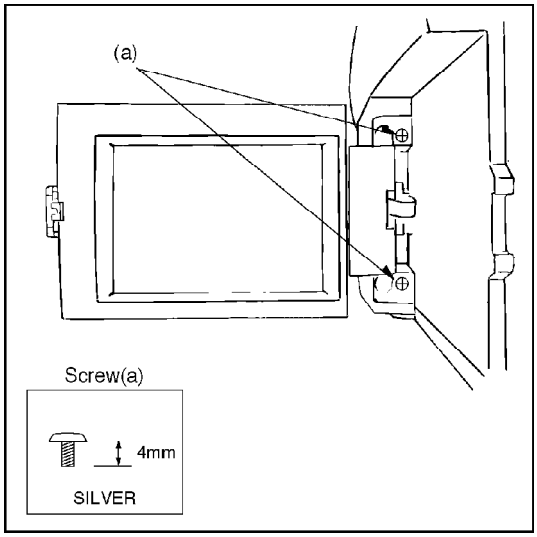


Fig.9-1

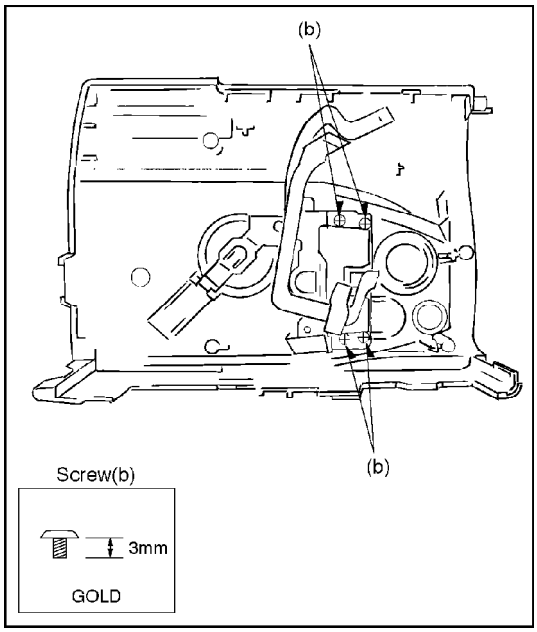


Fig.9-2

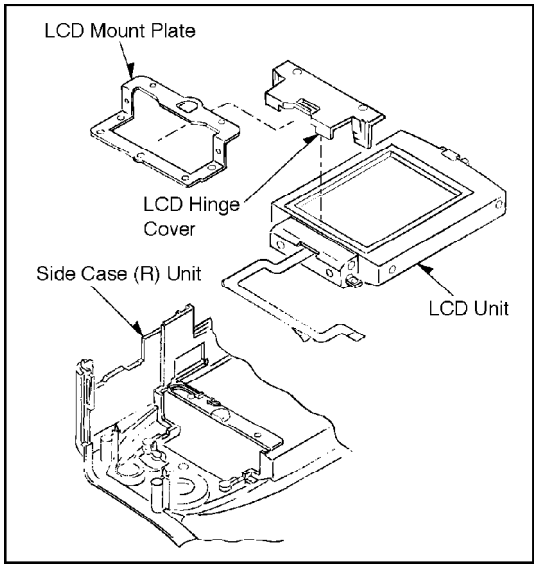

LCD Mount Plate
LCD Hinge
Cover
Side Case (R) Unit
LCD Unit

Fig.9-3

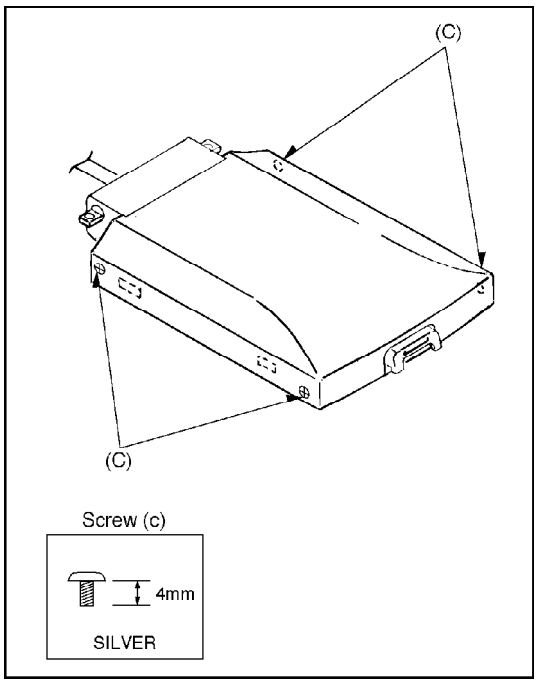

(C)
(C)
Screw (c)
4mm
SILVER

Fig.9-4

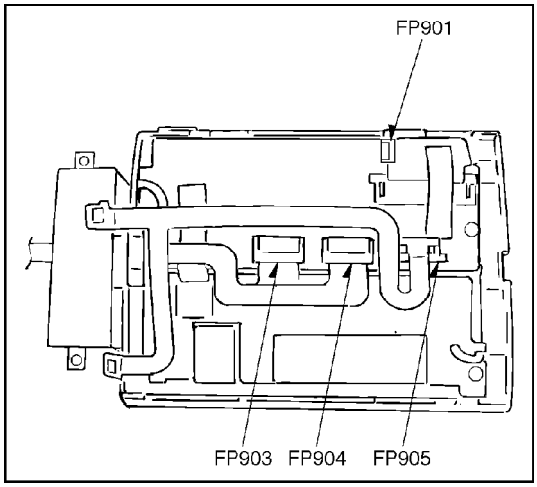

FP901
FP903
FP904
FP905

Fig.9-5

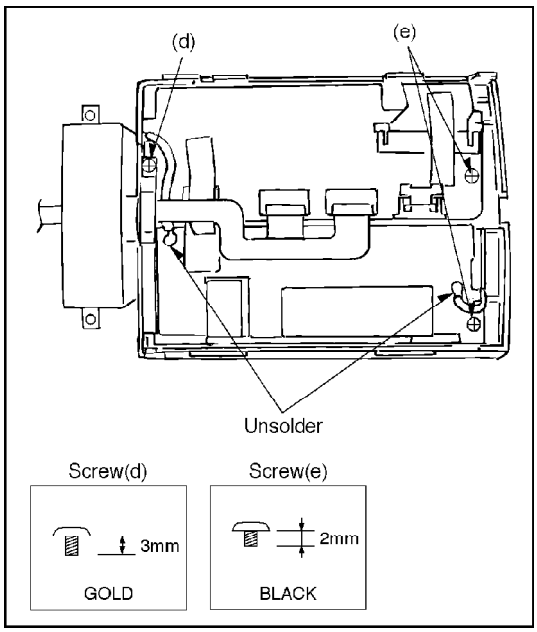

(d)
(e)
Unsolder
Screw(d)
Screw(e)
3mm
GOLD
2mm
BLACK

Fig.9-6

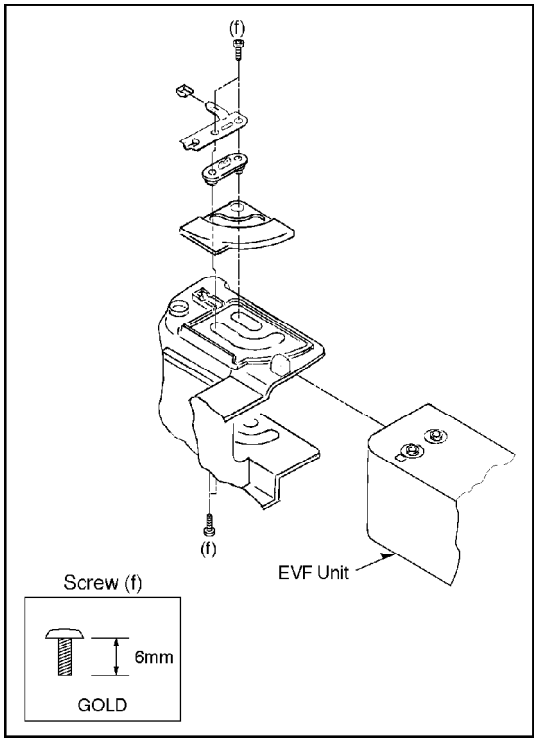


Fig.10-1

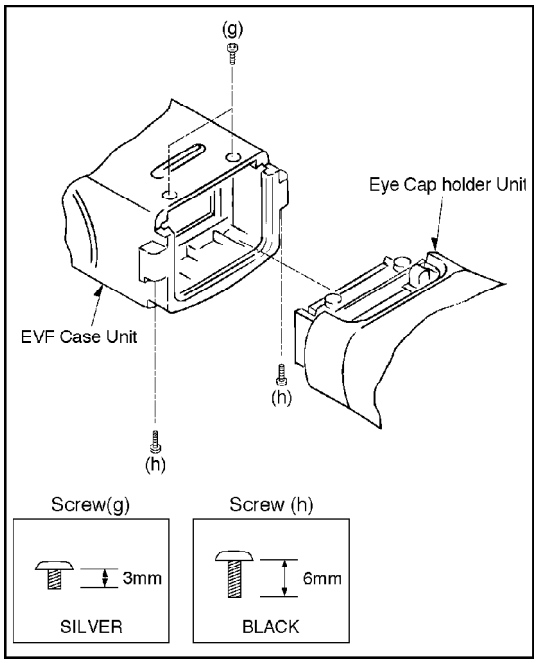


Fig.10-2

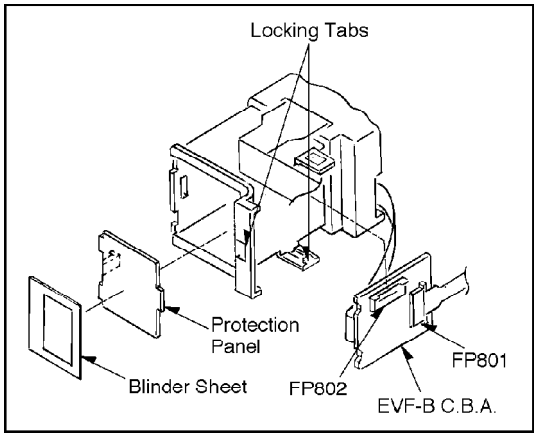


Fig.10-3

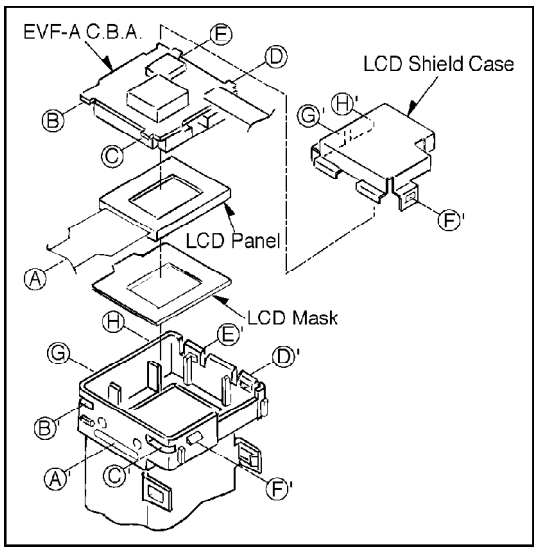


Fig.10-4

5.3. DISASSEMBLY PROCEDURES OF LENS UNIT

The following flowchart describes order or steps for removing the lens units and certain printed circuit boards in order to make access to the item needing service.
To reassemble the unit follow the steps in reverse order.

1. CCD Unit	Ref.-No. 302
2. CCD Cushion & Crystal Filter	Ref.-No. 303/301
3. Focus Motor Unit	Ref.-No. 304-2
4. Zoom Motor Unit	Ref.-No. 304-3
5. Crystal Mount Plate	Ref.-No. 304-12
6. 4th Moving Frame Unit	Ref.-No. 304-9
7. Focus Guide Pole	Ref.-No. 304-6
8. 3rd Lens Frame Unit	Ref.-No. 304-11
9. Iris Unit	Ref.-No. 304-7
10. 2nd Moving Frame Unit	Ref.-No. 304-8
11. Zoom Guide Pole	Ref.-No. 304-5

Note 2:
Each Ref.-numbers are equivalent to number on Fig. L2 and Parts-List.

Fig.L1

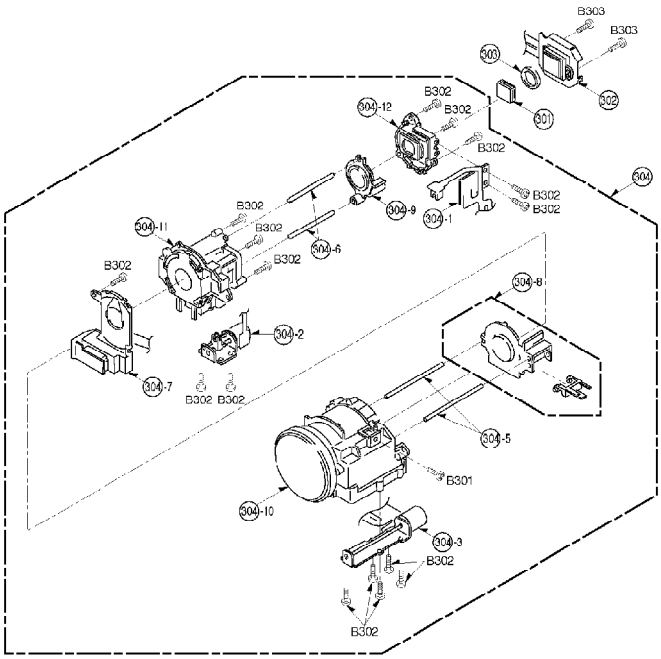


Fig.L2

6. ABBREVIATIONS

7. WAVE FORM TABLE

8. BLOCK DIAGRAM

8.1. OVERALL BLOCK DIAGRAM

8.2. CAMERA BLOCK DIAGRAM

8.3. VIDEO BLOCK DIAGRAM

8.4. SYSTEM CONTROL & SERVO BLOCK DIAGRAM
8.5. EVF & LCD MONITOR BLOCK DIAGRAM
8.6. AUDIO BLOCK DIAGRAM
9. SCHEMATIC DIAGRAM
9.1. INTERCONNECTION SCHEMATIC DIAGRAM
9.2. CAMERA CONNECTION SCHEMATIC DIAGRAM
9.3. PROCESS SCHEMATIC DIAGRAM
9.4. SENSOR SCHEMATIC DIAGRAM
9.5. LENS DRIVE SCHEMATIC DIAGRAM
9.6. VTR MAIN CONNECTION SCHEMATIC DIAGRAM
9.7. VIDEO 1 SCHEMATIC DIAGRAM
9.8. VIDEO 2 SCHEMATIC DIAGRAM
9.9. POWER SCHEMATIC DIAGRAM
9.10. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM
9.10.1. SYSTEM CONTORL I/O TABLE
9.10.2. SYSTEM CONTROL & SERVO VOLTAGE CHART
9.11. LCD SCHEMATIC DIAGRAM
9.12. DIGITAL I/F SCHEMATIC DIAGRAM
9.13. AUDIO SCHEMATIC DIAGRAM
9.14. CCD SCHEMATIC DIAGRAM
9.15. SPEAKER AMP CONNECTION SCHEMATIC DIAGRAM
9.16. SPEAKER AMP SCHEMATIC DIAGRAM
9.17. DRIVE SCHEMATIC DIAGRAM
9.18. MONITOR & HALL SENSOR FLEX. SCHEMATIC DIAGRAM
9.19. RS232C SCHEMATIC DIAGRAM

9.20. HEAD AMP SCHEMATIC DIAGRAM

9.21. TOP OPERATION SCHEMATIC DIAGRAM

9.22. REAR OPERATION SCHEMATIC DIAGRAM

9.23. CAMERA OPERATION UNIT/FRONT/MENU OPERATION/MF RING UNIT SCHEMATIC DIAGRAM

9.24. MIC UNIT SCHEMATIC DIAGRAM

9.25. EVF-A/EVF-B SCHEMATIC DIAGRAM

9.26. IC BLOCK

9.26.1. VIDEO 1 IC BLOCK

9.26.2. VIDEO2 IC BLOCK

9.26.3. SYSTEM CONTROL IC BLOCK

9.26.4. DRIVE IC BLOCK

9.26.5. EVF IC BLOCK

10. CIRCUIT BOARD ASS'Y

10.1. REAR OPERATION C.B.A. (VEP06C65A)

10.2. DRIVE C.B.A. (VEP02566A)

10.3. CCD C.B.A. (VEP22280A)

10.4. TOP OPERATION C.B.A. (VEP06C84A)

10.5. VTR MAIN [VTR Main Connection, Video1, Video2, System Control & Servo, LCD, Digital I/F, Audio Section] C.B.A. (VEP03E59A: NV-DA1EG/B, VEP03E59B: NV-DA1EN/ENA)

10.5.1. ADDRESS INFORMATION

10.5.2. COMPONENT SIDE

10.5.3. FOIL SIDE

10.6. CAMERA/POWER [Camera Connection, Sensor, Process, Lens Drive, Power Section] C.B.A. (VEP01829A)

10.6.1. COMPONENT SIDE

10.6.2. FOIL SIDE

10.6.3. ADDRESS INFORMATION

10.7. HEAD AMP C.B.A. (VEP05352A)

10.8. SPEAKER AMP [Speaker Amp Connection, Speaker Amp Section] C.B.A. (VEP04714A)

10.9. RS232C C.B.A.(VEP01830A)

10.10. MONITOR C.B.A. (VEP26213A)

10.11. MENU OPERATION C.B.A. (VEP06C66A)

10.12. FRONT C.B.A. (VEP06C64A)

10.13. MIC UNIT (VEK8596)

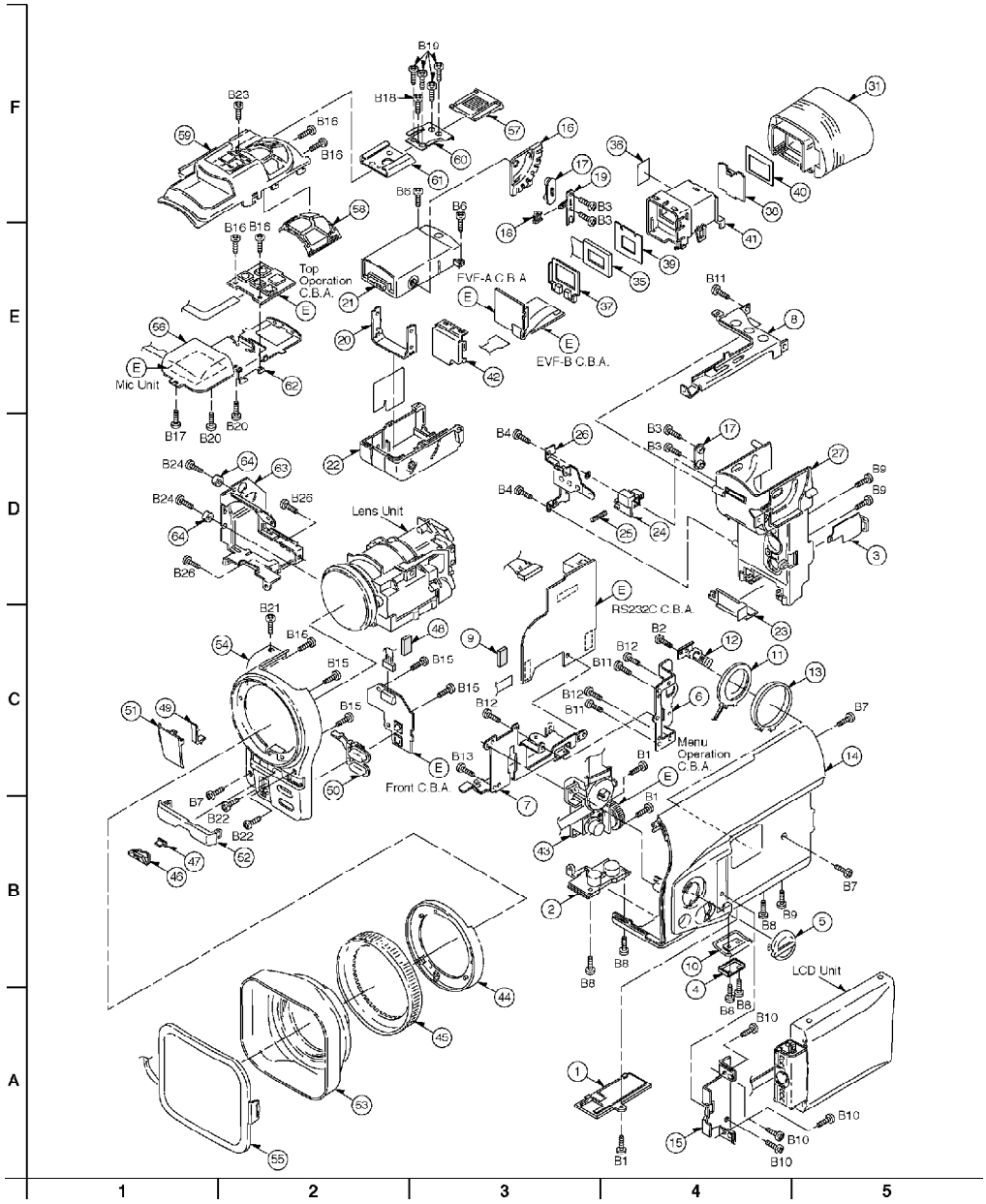
10.14. MF RING UNIT (VEP1896)

10.15. EVF-A C.B.A. (VEP28240D)

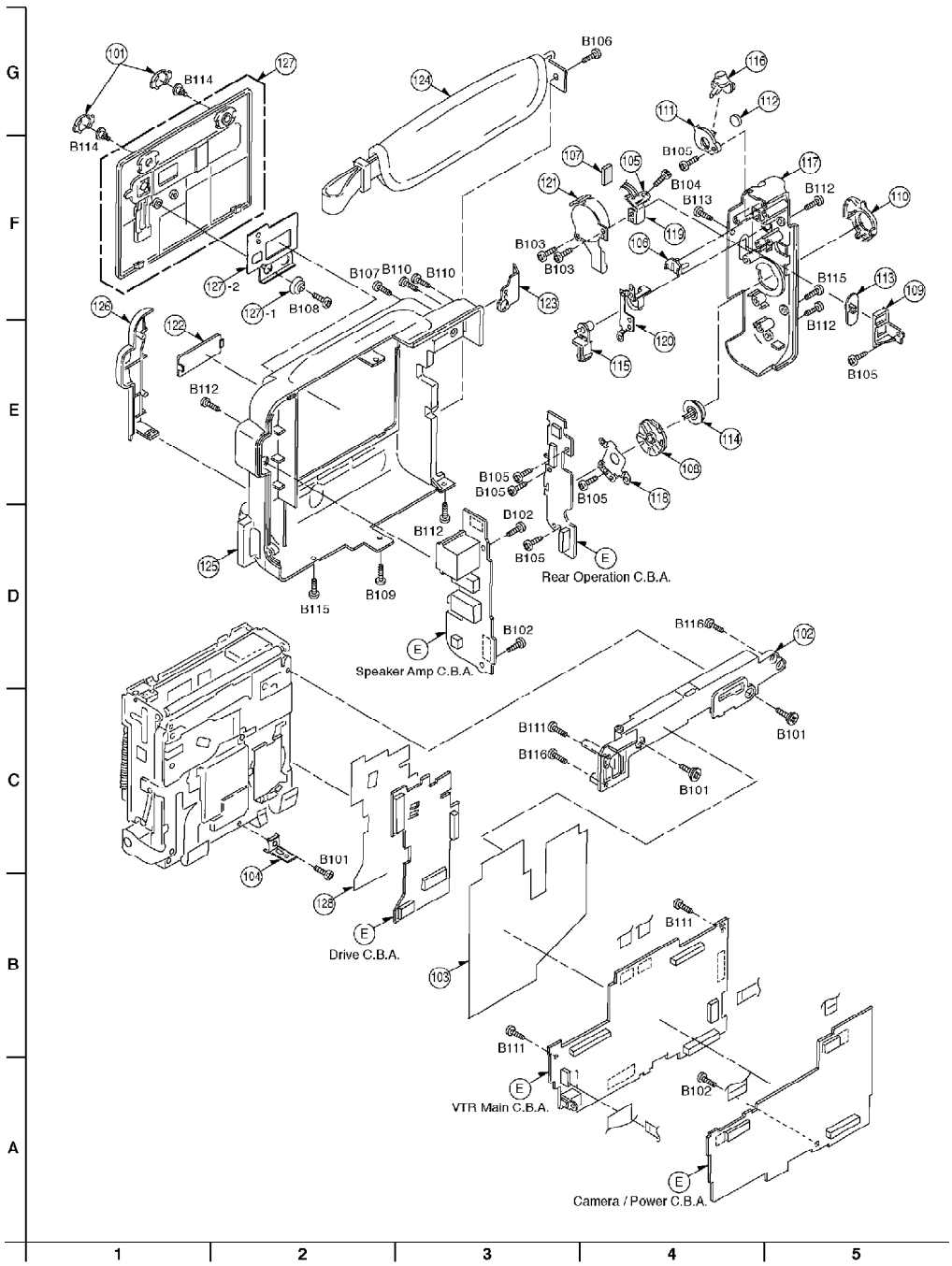
10.16. EVF-B C.B.A. (VEP28244C)

11. EXPLODED VIEWS

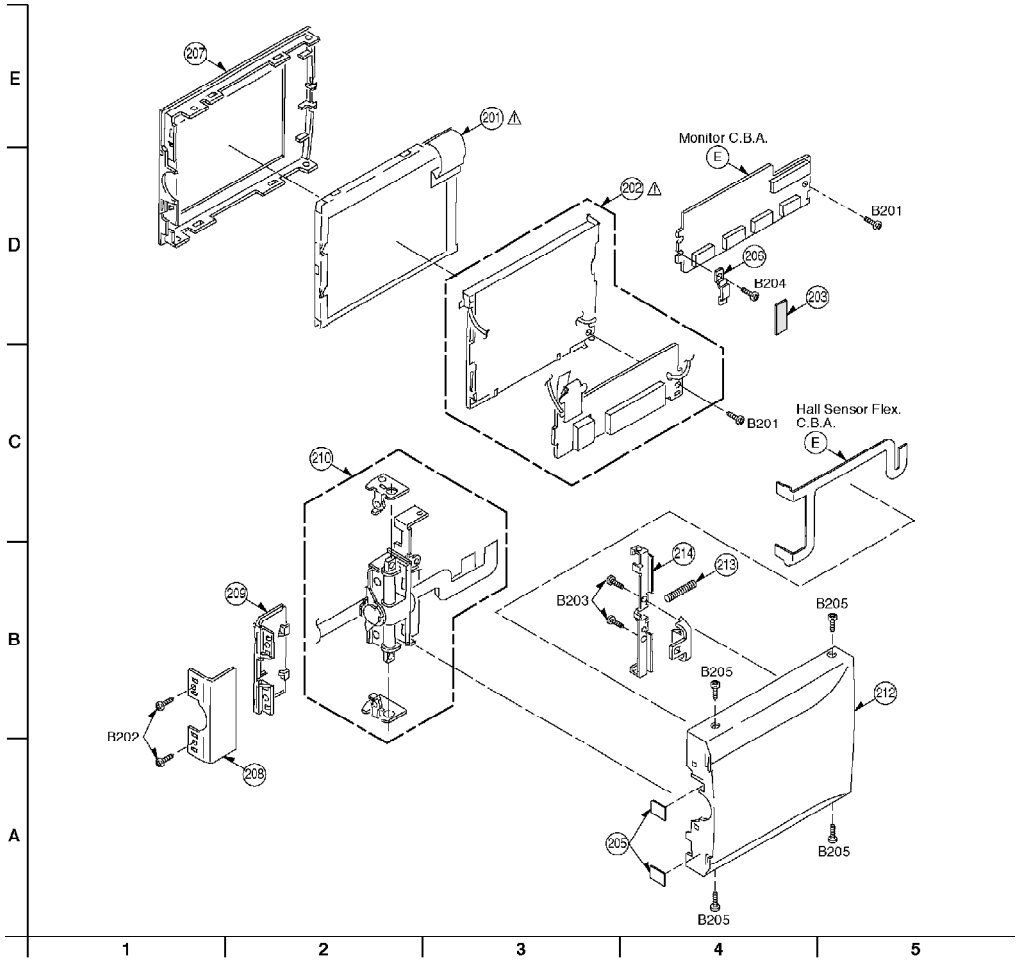
11.1. FRAME & CASING PARTS SECTION (1)



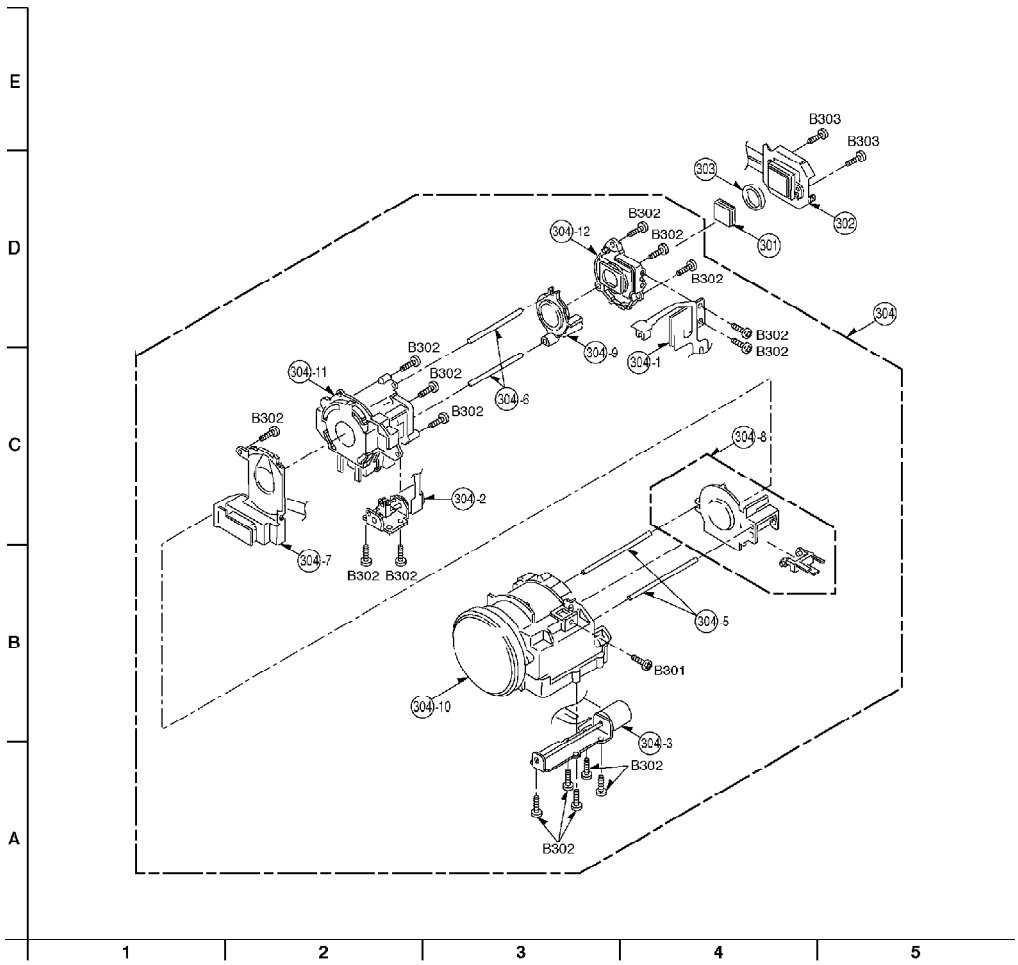
11.2. FRAME & CASING PARTS SECTION (2)



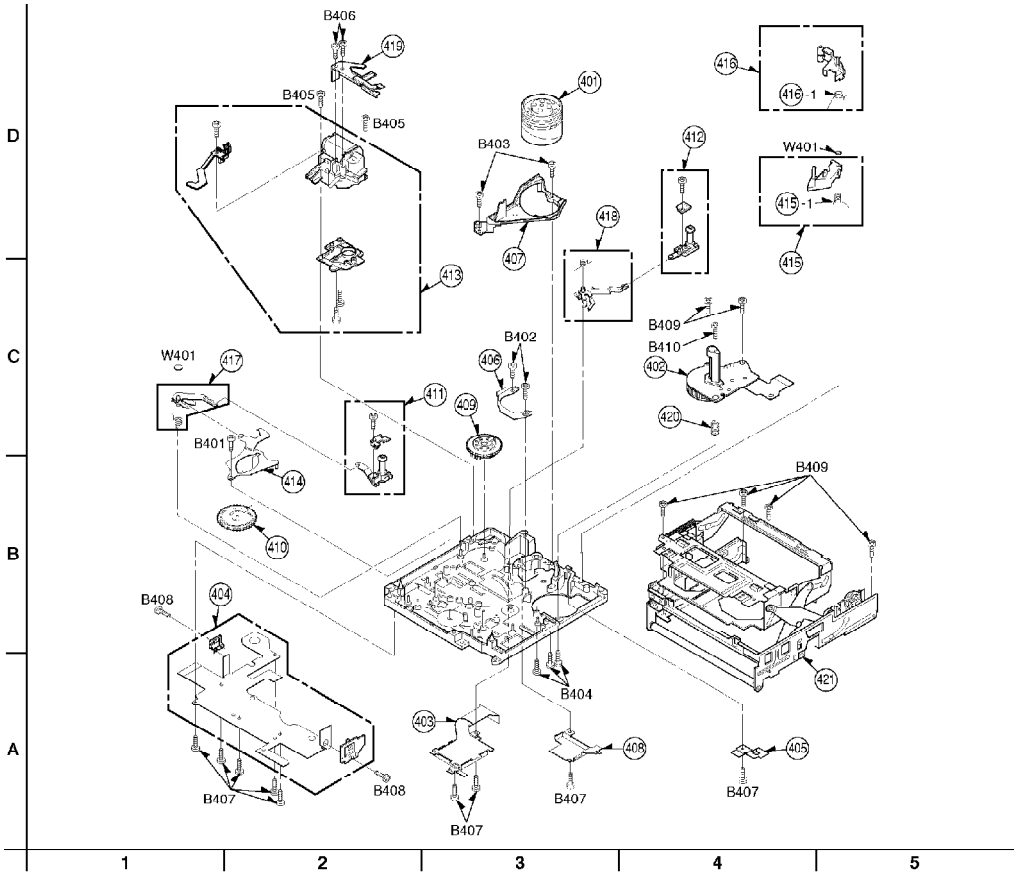
11.3. LCD PARTS SECTION



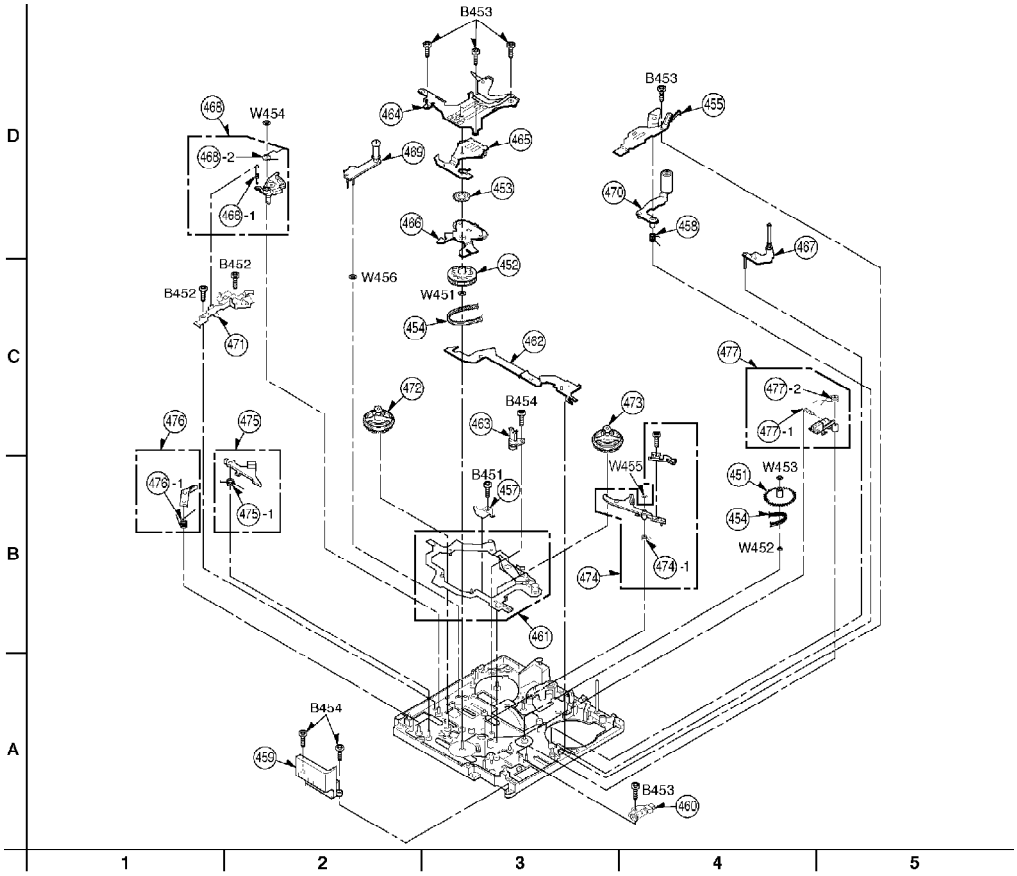
11.4. CAMERA LENS SECTION



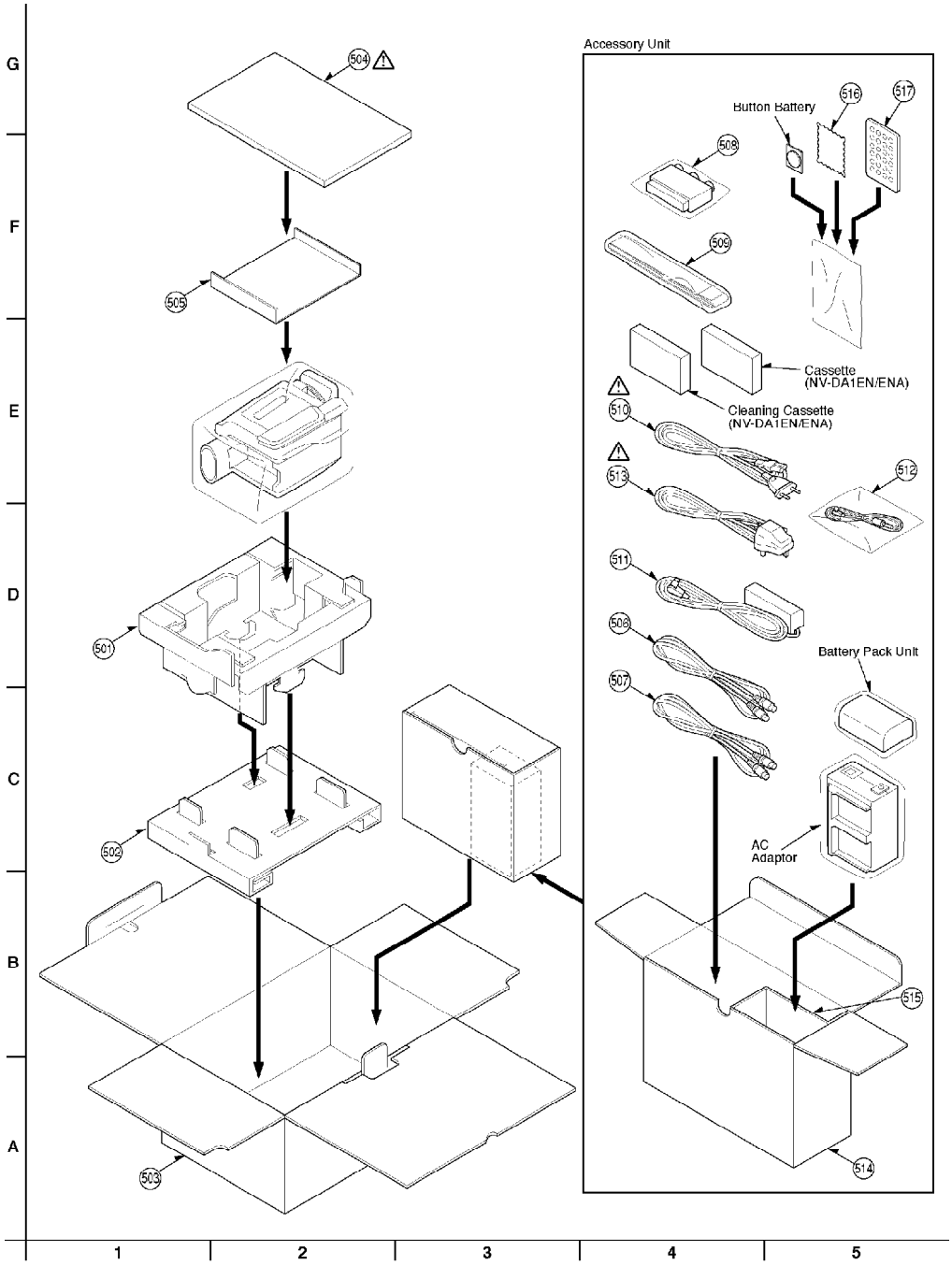
11.5. VCR MECHANISM SECTION (1)



11.6. VCR MECHANISM SECTION (2)



11.7. PACKING PARTS & ACCESSORIES SECTION



12. REPLACEMENT PARTS LIST

12.1. MECHANICAL REPLACEMENT PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

12.1.1. FRAME & CASING PARTS SECTION (1)

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	1 (1)	VKF2943	EVR COVER	1	
	2 (1)	VMD2796	TRIPOD FRAME	1	
	3 (1)	VGQ5063	LCD LOCK COVER	1	
	4 (1)	VGQ5096	STAND PIECE	1	
	5 (1)	VGU7930	AE DIAL PIECE	1	
	6 (1)	VMP5750	LCD FIXING ANGLE	1	
	7 (1)	VMP5751	CAMERA FRAME	1	
	8 (1)	VMP5753	TOP FRAME	1	
	9 (1)	VMZ2876	BATTERY BARRIER	1	
	10 (1)	VYK7758	STAND ARM U.	1	
	11 (1)	VEE0D95	SPEAKER CABLE	1	
	12 (1)	VMC1390	SPEAKER FIXING SPRING	1	
	13 (1)	VMG1106	SPEAKER RUBBER	1	
	14 (1)	VYK8598	SIDE CASE R (2) U.	1	
	15 (1)	VYK8583	LCD HINGE COVER U.	1	
	16 (1)	VGQ4584	EVF ROTARY PIECE	1	
	17 (1)	VGQ4585	EVF ROTARY HOLDER	2	
	18 (1)	VGQ4675	EVF LOCK PIECE	1	
	19 (1)	VMC1365	EVF ROTARY SPRING	1	
	20 (1)	VMP5464	EVF HOLD ANGLE	1	
	21 (1)	VYK8593	EVF CASE U. (UPPER)	1	
	22 (1)	VYK8594	EVF CASE U. (LOWER)	1	
	23 (1)	VEP01837B	POWER FLEX.	1	
	24 (1)	VGU7931	BATTERY LOCK KNOB	1	
	25 (1)	VMB3270	BATTERY LOCK SPRING	1	
	26 (1)	VMP5752	BATTERY LOCK PLATE	1	
	27 (1)	VYK8600	EVF HOLD CASE (1) U.	1	
	31 (1)	VYK8599	EYE CAP HOLDER U.	1	
	35 (1)	F05KM100	LCD PANEL	1	
	36 (1)	VGQ3457	EVF SHEET	1	
	37 (1)	VGQ4481	B.L. HOLDER	1	
	38 (1)	VGQ4673	EVF PROTECT PANEL	1	
	39 (1)	VGQ4730	LCD MASK	1	
	40 (1)	VGQ4736	EVF BARRIER SHEET	1	
	41 (1)	VJF1315	EVF HOLD PIECE	1	
	42 (1)	VSC4665	LCD SHIELD CASE	1	
	43 (1)	VEK8492	CAMERA OPERATION U.	1	
	44 (1)	VDW0575	MF DECORATION RING	1	
	45 (1)	VXP1896	MF RING U.	1	

	46 (1)	VGK2401	TALLY MOUNT	1	
	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	47 (1)	VGL0805	TALLY PANEL	1	
	48 (1)	VGQ2759	CABLE SHEET	1	
	49 (1)	VGQ4820	DV COVER HINGE	1	
	50 (1)	VGU7929	CAMERA OPERATION BUTTON	1	
	51 (1)	VKF2970	DV COVER	1	
	52 (1)	VKW2542	SENSOR WINDOW	1	
	53 (1)	VYF2523	LENS HOOD U.	1	
	54 (1)	VYK8587	FRONT CASE (1) U.	1	
	55 (1)	VYF2524	HOOD CAP U.	1	
	56 (1)	VYQ1606	MIC NET U.	1	
	57 (1)	VGQ4625	SHOE COVER	1	
	58 (1)	VGU7943	TOP OPERATION BUTTON	1	
	59 (1)	VKM5029	TOP CASE	1	
	60 (1)	VMC1372	SHOE SPRING	1	
	61 (1)	VMP5490	SHOE	1	
	62 (1)	VMP5807	SHOE ANGLE	1	
	63 (1)	VYQ1607	LENS FRAME U.	1	
	64 (1)	VMG0952	PROTECT RUBBER	2	
	B1 (1)	XQN16+ BJ4FZ	SCREW	3	
	B2 (1)	XQN2+BJ3	SCREW	1	
	B3 (1)	VHD1127	SCREW	4	
	B4 (1)	XQN16+CJ4	SCREW	2	
	B6 (1)	XQN2+CJ6FZ	SCREW	2	
	B7 (1)	XQN16+ BJ4FN	SCREW	3	
	B8 (1)	XQN16+B3FZ	SCREW	5	
	B9 (1)	XQN16+ BJ5FZ	SCREW	3	
	B10 (1)	XQN16+B4FN	SCREW	4	
	B11 (1)	XQN2+CJ3	SCREW	3	
	B12 (1)	XQN2+CJ4	SCREW	3	
	B13 (1)	XQN2+CJ6	SCREW	1	
	B14 (1)	XQN2+C25	SCREW	2	
	B15 (1)	XQN2+ BJ35FZ	SCREW	5	
	B16 (1)	XQN16+BF3	SCREW	4	
	B17 (1)	XQN16+BJ4	SCREW	1	
	B18 (1)	XQN2+A3FN	SCREW	1	
	B19 (1)	XQS2+A10FN	SCREW	4	
	B20 (1)	XQN2+BF5	SCREW	2	
	B21 (1)	XQN16+ BJ6FN	SCREW	1	
	B22 (1)	XQN16+B3FN	SCREW	3	
	B23 (1)	XQN16+B6FN	SCREW	1	
	B24 (1)	VHD1132	SCREW	2	
	B26 (1)	XQN2+CJ4	SCREW	2	

12.1.2. FRAME & CASING PARTS SECTION (2)

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	101 (2)	VGP4575	SCREW CAP	2	
	102 (2)	VGQ5005	MECHA. FIXING PIECE	1	
	103 (2)	VMZ2708	BER BARRIER	1	
	104 (2)	VXA5933	MECHA. FIXING ANGLE U.	1	
	105 (2)	VEK8533	DEW SENSOR	1	
	106 (2)	VGL0806	VTR CHANGE PANEL	1	
	107 (2)	VGQ2839	CABLE SHEET	1	
	108 (2)	VGQ4272	S/S BUTTON PIECE	1	
	109 (2)	VGQ4493	EJECT BUTTON HOLDER	1	
	110 (2)	VGQ4494	S/S LEVER	1	
	111 (2)	VGQ5012	PHOTO SHOT BUTTON HOLDER	1	
	112 (2)	VGQ5145	BUTTON SPACER	1	
	113 (2)	VGU7575	EJECT BUTTON	1	
	114 (2)	VGU7577	S/S BUTTON	1	
	115 (2)	VGU7933	VTR CHANGE BUTTON	1	
	116 (2)	VGU7934	PHOTO SHOT BUTTON	1	
	117 (2)	VKM5030	REAR CASE	1	
	118 (2)	VMC1470	S/S CLICK SPRING	1	
	119 (2)	VMP5748	DEW FIXING ANGLE	1	
	120 (2)	VSC4816	REAR PLATE	1	
	121 (2)	VEK8565	ZOOM OPERATION U.	1	
	122 (2)	VGQ5006	MECHA. ADJUST PIECE	1	
	123 (2)	VMA0A33	GRIP ANGLE	1	
	124 (2)	VYC0802	GRIP BELT U.	1	
	125 (2)	VYK8590	SIDE CASE (L) 1 U.	1	
	126 (2)	VKF2965	JACK COVER	1	
	127 (2)	VYK8743	CASSETTE COVER (1) U.	1	
	127-1(2)	VMB3148	CASSETTE COVER SPRING	1	
	127-2(2)	VMP5413	CASSETTE FIXING BASE	1	
	128 (2)	VMZ2839	BARRIER	1	
	B101 (2)	VHD0866	SCREW	3	
	B102 (2)	VHD1214	SCREW	3	
	B103 (2)	XQN16+BJ5	SCREW	2	
	B104 (2)	XQN16+B15	SCREW	1	
	B105 (2)	XQN2+BJ4	SCREW	6	
	B106 (2)	VHD0794	SCREW	1	
	B107 (2)	XQN16+B4	SCREW	1	
	B108 (2)	VHD1105	SCREW	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	B109 (2)	XQN16+B6FZ	SCREW	1	
	B110 (2)	XQN16+CJ8FZ	SCREW	2	
	B111 (2)	XQN2+B4	SCREW	3	
	B112 (2)	XQN16+BJ6FZ	SCREW	4	
	B113 (2)	XQN16+BJ5FZ	SCREW	1	
	B114 (2)	VHD1100	SCREW	2	
	B115 (2)	XQN16+B3FZ	SCREW	2	
	B116 (2)	VMS5604	SCREW	2	

12.1.3. LCD PARTS SECTION

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
⚠	201 (3)	C0D25T2021VB	LCD PANEL	1	
⚠	202 (3)	VEK8501	BACK LIGHT U.	1	
	203 (3)	VGQ2759	PROTECT SHEET	1	
	204 (3)	VGQ2184	PROTECT SHEET	1	
	205 (3)	VGQ4758	PROTECT SHEET	2	
	206 (3)	VGQ5136	FLEX. CARD FIXING PIECE	1	
	207 (3)	VKM5024	LCD BOTTOM CASE	1	
	208 (3)	VGQ5002	HINGE TOP COVER	1	
	209 (3)	VGQ5064	HINGE BOTTOM COVER	1	
	210 (3)	VXD0292	LCD ROTARY HINGE (1) U.	1	
	212 (3)	VYK8592	LCD TOP CASE U.	1	NV-DA1EG/B
	212 (3)	VYK8734	LCD TOP CASE U.	1	NV-DA1EN/ENA
	213 (3)	VMB3274	LOCK PIECE SPRING	1	
	214 (3)	VMP5747	LOCK PIECE PLATE	1	
	B201 (3)	XQN16+B2FZ	SCREW	2	
	B202 (3)	XQN2+BF35	SCREW	2	
	B203 (3)	XQS16+AJ3	SCREW	2	
	B204 (3)	XQN16+BF3FN	SCREW	1	
	B205 (3)	XQN16+B3FN	SCREW	4	

12.1.4. CAMERA LENS SECTION

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	301 (4)	VDL0421	CRYSTAL FILTER	1	
	302 (4)	VEK8489	CCD UNIT	1	
	303 (4)	VMX2376	CCD CUSHION	1	
	304 (4)	VXW0418	LENS UNIT	1	
	304-1 (4)	VEK8084	LENS FLEX.	1	
	304-2 (4)	VEM0626	FOCUS MOTOR U.	1	
	304-3 (4)	VEM0662	ZOOM MOTOR U	1	
	304-5 (4)	VMS5735	Z GUIDE POLE	2	
	304-6 (4)	VMS5736	F GUIDE POLE	2	
	304-7 (4)	VXL2445	IRIS UNIT	1	
	304-8 (4)	VXP1807	2ND MOVING FRAME U.	1	
	304-9 (4)	VXP1818	4TH MOVING FRAME U.	1	
	304-10(4)	VXQ0642	MAIN FRAME U.	1	
	304-11(4)	VXQ0643	3RD LENS FRAME U.	1	
	304-12(4)	VDW0490	CRYSTAL MOUNT PLATE	1	
	B301 (4)	VHD0852	SCREW	1	
	B302 (4)	XQN16+CJ5	SCREW	16	
	B303 (4)	XQN16+CJ6	SCREW	2	

12.1.5. VCR MECHANISM SECTION (1)

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	401 (5)	VEG1438	CYLINDER UNIT	1	
	402 (5)	VEM0624	CAPSTAN MOTOR UNIT	1	
	403 (5)	VEP05352A	HEAD AMP C.B.A.	1	
	403-*(5)	VSC4639	HEAD AMP SHIELD CASE	1	
	404 (5)	VES0856	FLEXIBLE CABLE	1	
	405 (5)	VMA9708	CAPSTAN COVER	1	
	406 (5)	VMA9179	RADON PLATE	1	
	407 (5)	VMD2373	RAIL	1	
	408 (5)	VSC4640	SHIELD CASE	1	
	409 (5)	VSR0114	MODE SW	1	
	410 (5)	VXA5407	CAM GEAR UNIT	1	
	411 (5)	VXA5409	S BOAT UNIT	1	
	412 (5)	VXA5410	T BOAT UNIT	1	
	413 (5)	VXA5417	GEAR BOX (LOADING MOTOR)	1	
	414 (5)	VXA5612	RADON COVER UNIT	1	
	415 (5)	VXL2461	T2 ARM UNIT	1	
	415-1(5)	VMB2789	T2 ARM SPRING	1	
	416 (5)	VXL2468	CLEANING ARM UNIT	1	
	416-1(5)	VMB2791	CLEANING ARM SPRING	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	417 (5)	VXL2470	S1 ARM UNIT	1	
	418 (5)	VXL2471	T1 ARM UNIT	1	
	419 (5)	VMA9753	BRUSH ARM STOPPER	1	
	420 (5)	VMB2777	CAPSTAN ADJ. SPRING	1	
	421 (5)	VXA5387	GARAGE UNIT	1	
	B401 (5)	VHD0878	SCREW	1	
	B402 (5)	VHD0989	SCREW	2	
	B403 (5)	XQN14+B4	SCREW	2	
	B404 (5)	XQN14+B2	SCREW	3	
	B405 (5)	XQN14+B35	SCREW	2	
	B406 (5)	XQN14+BQ4	SCREW	2	
	B407 (5)	XQN14+B15	SCREW	9	
	B408 (5)	XQN14+B2	SCREW	2	
	B409 (5)	VHD0882	SCREW	6	
	B410 (5)	XQN14+B4FZ	SCREW	1	
	W401 (5)	VMX2027	WASHER	2	

12.1.6. VCR MECHANISM SECTION (2)

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	451 (6)	VDG1030	DRIVE PULLEY	1	
	452 (6)	VDG1031	CENTER PULLEY	1	
	453 (6)	VDG1032	SENSOR GEAR	1	
	454 (6)	VDV0265	TIMING BELT	1	
	455 (6)	VMA9178	PINCH PRESSURE PLATE	1	
	457 (6)	VMA9181	BRAKE ROD SUPPORT (T)	1	
	458 (6)	VMB2776	SPRING	1	
	459 (6)	VSH0067	MIC SWITCH	1	
	460 (6)	VSJ0114	SOLENOID	1	
	461 (6)	VXA5401	BRAKE ROD UNIT	1	
	462 (6)	VXA5408	T3 ROD UNIT	1	
	463 (6)	VXA5411	LED HOLDER UNIT	1	
	464 (6)	VXA5412	COVER PLATE UNIT	1	
	465 (6)	VXL2454	P IDLER ARM UNIT	1	
	466 (6)	VXL2455	FR IDLER ARM UNIT	1	
	467 (6)	VXL2456	TENSION ARM UNIT	1	
	468 (6)	VXL2732	PAD ARM UNIT	1	
	468-1(6)	VMB2788	TENSION SPRING	1	
	468-2(6)	VMB2787	PAD ARM SPRING	1	
	469 (6)	VXL2462	T3 ARM UNIT	1	
	470 (6)	VXL2464	PINCH ARM UNIT	1	
	471 (6)	VXL2466	EJECT ARM UNIT	1	
	472 (6)	VXR0347	SUPPLY REEL TABLE	1	
	473 (6)	VXR0348	TAKE UP REEL TABLE	1	
	474 (6)	VXZ0319	TAKE UP MAIN BRAKE	1	
	474-1(6)	VMB2782	T MAIN BRAKE SPRING	1	
	475 (6)	VXZ0321	SUPPLY MAIN BRAKE	1	
	475-1(6)	VMB2783	S MAIN BRAKE SPRING	1	
	476 (6)	VXZ0322	FF BRAKE UNIT	1	
	476-1(6)	VMB2784	FF BRAKE SPRING	1	
	477 (6)	VXZ0323	REV BRAKE UNIT	1	
	477-1(6)	VMB2786	REV SPRING	1	
	477-2(6)	VMB2785	REV BRAKE SPRING	1	
	B451 (6)	VHD0884	SCREW	1	
	B452 (6)	XQN14+B15	SCREW	2	
	B453 (6)	VHD0883	SCREW	5	
	B454 (6)	XQN14+B35	SCREW	3	
	W451 (6)	VMX2503	WASHER	1	
	W452 (6)	VMX2400	WASHER	1	
	W453 (6)	VMX2504	WASHER	1	
	W454 (6)	VMX2027	WASHER	1	

	W454 (6)	VMX2027	WASHER	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	W455 (6)	VMX2028	WASHER	1	
	W456 (6)	VMX2394	WASHER	1	

12.1.7. PACKING PARTS & ACCESSORIES SECTION

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	501 (7)	VPN4967	CUSHION (UPPER)	1	
	502 (7)	VPN4968	CUSHION (LOWER)	1	
	503 (7)	VPK2156	PACKING	1	NV-DA1EG
	503 (7)	VPK2184	PACKING	1	NV-DA1B
	503 (7)	VPK2185	PACKING	1	NV-DA1EN
	503 (7)	VPK2186	PACKING	1	NV-DA1ENA
⚠	504 (7)	VQT7653	OPERATING INSTRUCTIONS	1	NV-DA1EG
			(GERMAN,ENGLISH,FRENCH,		
			SPANISH)		
⚠	504 (7)	VQT7654	OPERATING INSTRUCTIONS	1	NV-DA1EG
			(ITALIAN,DUTCH,SWEDISH,		
			DANISH)		
⚠	504 (7)	VQT7655	OPERATING INSTRUCTIONS	1	NV-DA1B
			(ENGLISH)		
⚠	504 (7)	VQT7656	OPERATING INSTRUCTIONS	1	NV-DA1EN/ENA
			(ENGLISH,CHINESE,ARABIC,		
			RUSSIAN)		
	505 (7)	VPN4824	PAD	1	
	506 (7)	VJA1028	AV 4PIN CORD	1	
	507 (7)	VJA0658	S-VIDEO CORD	1	
	508 (7)	VFA0151	21PIN ADAPTOR	1	NV-DA1EG/B
	509 (7)	VFC2905	SHOULDER BELT	1	
⚠	510 (7)	VJA1039	AC CORD	1	NV-DA1EG/EN
⚠	510 (7)	VJA0940	AC CORD	1	NV-DA1B
⚠	510 (7)	VJA0754	AC CORD	1	NV-DA1ENA
	511 (7)	VJA1088	DC CABLE U.	1	
	512 (7)	VFA0292	HEAD PHONE ADAPTOR	1	
⚠	513 (7)	VJA0940	AC CORD	1	NV-DA1EN
	514 (7)	VPN5025	ACCESSORIES PACKING	1	
	515 (7)	VPN4965	PAD	1	
	516 (7)	VFC1792	LENS CLEANER	1	
	517 (7)	VEQ2141	REMOTE CONTROLLER U.	1	NV-DA1EG/B
	517 (7)	VEQ2142	REMOTE CONTROLLER U.	1	NV-DA1EN/ENA

12.2. ELECTRICAL REPLACEMENT PARTS LIST

Note:
1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety.
   When replcing any of these components, use only the same type.
3. Unless otherwise specified, All resistors are in OHMS, K=1,000 OHMS.
   All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C.Board units marked with "■" show below the main assembled parts.
5. The marking (RTL) indicators the retention time is limited for this item.
   After the discontinuation of this assembly in production, it will no longer be available.

12.2.1. PRINTED CIRCUIT BOARD ASS'Y

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03E59A	VTR/MAIN C.B.A.	1	(RTL) NV-DA1EG /B
	■	VEP03E59B	VTR/MAIN C.B.A.	1	(RTL) NV-DA1EN /ENA
	■	VEP22280A	CCD FLEX. CARD C.B.A.	1	(RTL)
	■	VEK8084	LENS FLEX. CARD C.B.A.	1	(RTL)
	■	VEP28240D	E.V.F.(A) C.B.A.	1	(RTL)
	■	VEP28244C	E.V.F.(B) C.B.A.	1	(RTL)
	■	VEP01829A	SUB C.B.A.	1	(RTL)
	■	VEP02566A	DRIVE C.B.A.	1	(RTL)
	■	VEP04714A	SPEAKER AMP C.B.A.	1	(RTL)
	■	VEP26213A	MONITOR C.B.A.	1	(RTL)
	■	VEP06C69A	HALL SENSOR FLEX. CARD	1	(RTL)
	■	VEP01830A	RS232C C.B.A.	1	(RTL)
	■	VEP06C66A	MENU OPERATION C.B.A.	1	(RTL)
	■	VXP1896	MF RING U.	1	(RTL)

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06C64A	FRONT C.B.A.	1	(RTL)
	■	VEP06C65A	REAR OPERATION C.B.A.	1	(RTL)
	■	VEK8596	MIC UNIT	1	(RTL)
	■	VEP06C84A	TOP OPERATION C.B.A.	1	(RTL)
	■	VEP05352A	HEAD AMP C.B.A.	1	(RTL)

12.2.2. VTR/MAIN C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03E59A	VTR/MAIN C.B.A.		(RTL) NV-DA1EG /B
	■	VEP03E59B	VTR/MAIN C.B.A.		(RTL) NV-DA1EN /ENA
	C501	ECUM0J335VBN	C.CAPACITOR CH 6.3V 3.3U	1	
	C502	ECUM0J335VBN	C.CAPACITOR CH 6.3V 3.3U	1	
	C503	ECUM0J335VBN	C.CAPACITOR CH 6.3V 3.3U	1	
	C601	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C602	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
	C603	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C604	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C605	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C606	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C607	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C608	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C609	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C610	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C611	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	C612	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	C613	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	C614	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C615	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	
	C616	ECUX1H680JCQ	C.CAPACITOR CH 50V 68P	1	
	C617	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	1	
	C618	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	1	
	C619	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	1	
	C620	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C621	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C622	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C623	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C624	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C625	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C626	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C630	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C631	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C632	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C633	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C634	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
	C635	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C636	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C637	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C638	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C639	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C640	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C641	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C642	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C643	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	C644	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	C645	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	C646	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C647	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	
	C648	ECUX1H680JCQ	C.CAPACITOR CH 50V 68P	1	
	C649	ECUX1H390JCQ	C.CAPACITOR CH 50V 39P	1	
	C650	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	1	
	C651	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	1	
	C652	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C653	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C654	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C655	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C656	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C657	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C658	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C662	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C663	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C664	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C665	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
	C667	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C671	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2001	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C2002	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C2003	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2004	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2005	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2006	ECUX1H120JCQ	C.CAPACITOR CH 50V 12P	1	
	C2007	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C2008	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2009	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2010	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2011	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2012	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
	C2013	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2014	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2015	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2016	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2017	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C2018	ECST0JY475Z	T.CAPACITOR CH 6.3V 4.7U	1	
	C2019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2020	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2021	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2022	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2023	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2024	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2025	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2026	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2027	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C2028	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2029	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2030	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2033	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2034	ECST1CY225Z	T.CAPACITOR CH 16V 2.2U	1	
	C2037	ECUX1H330JCQ	C.CAPACITOR CH 50V 33P	1	
	C2038	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C2040	ECUX1H120JCQ	C.CAPACITOR CH 50V 12P	1	
	C2042	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C2043	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C2044	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2045	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2046	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C2047	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2048	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C2049	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C2050	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C2051	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C2199	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C3001	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3002	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3003	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C3004	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3005	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3006	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3007	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3008	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3009	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3010	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3011	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3012	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3013	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3015	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3018	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3020	ECUX1H100CCQ	C.CAPACITOR CH 50V 10P	1	
	C3021	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C3023	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C3025	ECST0JC107Z	T.CAPACITOR CH 6.3V 100U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C3026	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3027	ECUX1H050CCQ	C.CAPACITOR CH 50V 5P	1	
	C3028	ECUX1E561KBQ	C.CAPACITOR CH 25V 560P	1	
	C3029	ECST0JC107Z	T.CAPACITOR CH 6.3V 100U	1	
	C3030	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3035	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3036	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C3037	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C3038	ECUX1H101JCQ	C.CAPACITOR CH 50V 100P	1	
	C3039	ECUX1H101JCQ	C.CAPACITOR CH 50V 100P	1	
	C3040	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C3041	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C3042	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3043	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3044	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3045	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3046	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3047	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3048	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3050	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3051	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3053	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3054	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3055	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3056	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3057	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3058	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3060	ECUX1H270JCQ	C.CAPACITOR CH 50V 27P	1	
	C3061	ECUX1H180JCQ	C.CAPACITOR CH 50V 18P	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C3065	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3066	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3067	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C3071	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3072	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3073	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3074	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3075	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3076	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3077	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3078	ECUX1H050CCQ	C.CAPACITOR CH 50V 5P	1	
	C3079	ECUX1H050CCQ	C.CAPACITOR CH 50V 5P	1	
	C3080	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C3081	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3083	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C3084	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C3086	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3088	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3089	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3090	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3091	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C3092	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	1	
	C3094	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3096	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3201	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3202	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3203	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3204	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3205	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C3206	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3207	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3208	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C3209	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C32010	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C32011	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3212	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C3213	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C3214	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3215	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3216	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3217	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3218	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3219	ECUX1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
	C3220	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3221	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3222	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3223	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C3224	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3225	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3226	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3227	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3228	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C3229	ECUX1E331KBQ	C.CAPACITOR CH 25V 330P	1	
	C3230	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3231	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	
	C3232	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3233	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3234	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C3235	ECUX1E681KBQ	C.CAPACITOR CH 25V 680P	1	
	C3236	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3237	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3238	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3239	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3240	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3241	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3242	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3243	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3244	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3245	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3246	ECUM0J225KBN	C.CAPACITOR CH 6.3V 2.2U	1	
	C3247	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3248	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3249	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3250	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3251	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3252	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3253	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3254	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3255	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3256	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3257	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3258	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C3259	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3260	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3261	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3262	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3264	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C3265	ECUX1H220JCQ	C.CAPACITOR CH 50V 22P	1	
	C3802	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3803	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3804	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3806	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C3807	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	1	
	C3808	ECUX1E271KBQ	C.CAPACITOR CH 25V 270P	1	
	C3809	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C3813	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C3814	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C3816	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C3817	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3818	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3820	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3822	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C3824	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3825	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3826	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C3827	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3901	ECST0JC107Z	T.CAPACITOR CH 6.3V 100U	1	
	C3902	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C3997	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C3998	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C3999	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4001	ECUX1H121JCQ	C.CAPACITOR CH 50V 120P	1	
	C4002	ECUX1H121JCQ	C.CAPACITOR CH 50V 120P	1	
	C4005	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	
	C4006	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	
	C4011	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C4012	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4018	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4501	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C4502	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C4503	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4504	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4505	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4506	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4507	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4508	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4509	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4510	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4513	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C4514	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C4515	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C6501	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C6502	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C6503	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	D2001	MA2S728	DIODE	1	
	D2002	MA2S728	DIODE	1	
	D2003	MA2S728	DIODE	1	
	D2004	MA2S728	DIODE	1	
	D2006	MA133	DIODE	1	
	D2007	1SS355	DIODE	1	
	D2009	1SS355	DIODE	1	
	D2010	MA2S728	DIODE	1	
	D2013	MA2S728	DIODE	1	
	D2015	MA2S728	DIODE	1	
	D2016	MA2S728	DIODE	1	
	D2017	MA2S728	DIODE	1	
	D2018	MA2S728	DIODE	1	
	D2020	MA2S728	DIODE	1	
	D2021	MA2S728	DIODE	1	
	D2022	MA2S728	DIODE	1	
	D2023	1SS355	DIODE	1	
	D2025	MA2S728	DIODE	1	
	D2026	1SS355	DIODE	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	D3201	MA132WA	DIODE	1	
	D6501	MA132WA	DIODE	1	
	D6502	MA132WA	DIODE	1	
	D6503	MA132WA	DIODE	1	
	D6504	MA132WA	DIODE	1	
	D6505	MA132A	DIODE	1	
	D6506	MA132WA	DIODE	1	
	FP602	VJS3971B021	CONNECTOR (FEMALE) 21P	1	
	FP3201	VJS3320B024	CONNECTOR (FEMALE) 24P	1	
	FP3501	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
	FP3504	VJS3452A010	CONNECTOR (FEMALE) 10P	1	
	FP6001	VJS3319B007	CONNECTOR (FEMALE) 7P	1	
	FP6002	VJS3319B014	CONNECTOR (FEMALE) 14P	1	
	IC601	IR3Y35M	IC	1	
	IC602	IR3Y35M	IC	1	
	IC604	BU4053BCFV	IC	1	
	IC2001	M31020MA119	IC	1	NV-DA1EG/B
	IC2001	M31020MA117A	IC	1	NV-DA1EN/ENA
	IC2002	S3511AEFS	IC	1	
	IC2003	UPD6462GS626	IC	1	
	IC2004	S81333HGKF	IC	1	
	IC2005	S29L330AFS	IC	1	
	IC2006	M62370GP	IC	1	
	IC2007	TA75W393FU	IC	1	
	IC2008	TC7S32FU	IC	1	
	IC2009	S81238SGQ8	IC	1	
	IC2010	XC61AN2901MR	IC	1	
	IC2011	D784037GK524	IC	1	
	IC2012	TA75W393FU	IC	1	
	IC2013	MM1320ENRE	IC	1	
	IC2014	TC4W53FU	IC	1	
	IC2015	TA75S393F	IC	1	
	IC3001	T9P90EF	IC	1	
	IC3002	MN47V07AF	IC	1	
	IC3003	MN67373	IC	1	
	IC3005	BH7086KV	IC	1	
	IC3006	NJM2538V	IC	1	
	IC3201	M65501FP	IC	1	
	IC3202	MNV4260	IC	1	
	IC3203	AN3741FAP-AV	IC	1	
	IC3204	AD9057BRS-60	IC	1	
	IC3205	TC7SH08FU	IC	1	
	IC3801	TSB13LV11PBW	IC	1	
	IC4001	NJM3414AV	IC	1	
	IC4501	AK4516VF	IC	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	IC6501	TC7W241FU	IC	1	
	IC6502	TC7W241FU	IC	1	
	IC6503	TC7W241FU	IC	1	
	IC6505	TC7SH08FU	IC	1	
	IC6506	TC7SH08FU	IC	1	
	JK3801	VJJ0568	DV TERMINAL	1	
	L601	VLQ0807K100	COIL 10UH	1	
	L602	VLQ0807K100	COIL 10UH	1	
	L603	VLQ0807K100	COIL 10UH	1	
	L605	VLQ0807K100	COIL 10UH	1	
	L606	VLQ0807K220	COIL 22UH	1	
	L607	VLQ0426J470	COIL 47UH	1	
	L2001	VLQ0807K100	COIL 10UH	1	
	L2002	VLQ0426J330	COIL 33UH	1	
	L2003	VLQ0807K100	COIL 10UH	1	
	L2004	VLQ0807K100	COIL 10UH	1	
	L2006	VLQ0807K220	COIL 22UH	1	
	L3001	VLQ0807K100	COIL 10UH	1	
	L3002	VLQ0426J6R8	COIL 6.8UH	1	
	L3003	VLQ0807K100	COIL 10UH	1	
	L3004	VLQ0807K100	COIL 10UH	1	
	L3005	VLQ0807K220	COIL 22UH	1	
	L3006	VLQ0807K100	COIL 10UH	1	
	L3007	VLQ0807K100	COIL 10UH	1	
	L3008	VLQ0807K100	COIL 10UH	1	
	L3009	VLQ0426J120	COIL 12UH	1	
	L3010	VLQ0807K100	COIL 10UH	1	
	L3011	VLQ0807K100	COIL 10UH	1	
	L3201	VLQ0807K100	COIL 10UH	1	
	L3202	VLQ0807M4R7	COIL 4.7UH	1	
	L3203	VLQ0807K100	COIL 10UH	1	
	L3204	VLQ0807K100	COIL 10UH	1	
	L3205	VLQ0807K100	COIL 10UH	1	
	L3206	VLQ0807K100	COIL 10UH	1	
	L3207	VLQ0807K100	COIL 10UH	1	
	L3208	VLQ0807K220	COIL 22UH	1	
	L3209	VLQ0807M4R7	COIL 4.7UH	1	
	L3801	VLQ0807K100	COIL 10UH	1	
	L3802	VLQ0807K100	COIL 10UH	1	
	L3803	VLQ0807K100	COIL 10UH	1	
	L3901	VLQ0807K220	COIL 22UH	1	
	L4001	VLQ0807K100	COIL 10UH	1	
	L4502	VLQ0807K100	COIL 10UH	1	
	L6501	VLQ0807K100	COIL 10UH	1	
	L6502	VLQ0807K100	COIL 10UH	1	
	L6503	VLQ0807K100	COIL 10UH	1	
	LB3001	VLQ0584	COIL	1	
	LB3002	VLQ0584	COIL	1	
	LB3003	VLQ0584	COIL	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	LB3004	VLP0355A121T	COIL	1	
	LB3005	VLP0324A601T	COIL	1	
	LB3007	VLP0324A221T	COIL	1	
	LB3008	VLP0324A601T	COIL	1	
	LB3009	VLP0324A601T	COIL	1	
	LB3010	VLP0324A601T	COIL	1	
	LB3994	VLP0157	COIL	1	
	LB3995	VLP0324A601T	COIL	1	
	LB3996	VLP0324A601T	COIL	1	
	LB3997	VLP0157	COIL	1	
	PP2001	VJP3989C050	CONNECTOR (MALE) 50P	1	
	PP3001	VJP3884B060	CONNECTOR (MALE) 60P	1	
	PP4802	VJS3846A030	CONNECTOR (FEMALE) 30P	1	
	PS3001	VJS3846A080	CONNECTOR (FEMALE) 80P	1	
	PS3002	VJS3846A070	CONNECTOR (FEMALE) 70P	1	
	Q501	XP4601	TRANSISTOR	1	
	Q502	XP4601	TRANSISTOR	1	
	Q503	XP4601	TRANSISTOR	1	
	Q504	XP4601	TRANSISTOR	1	
	Q505	XP4601	TRANSISTOR	1	
	Q506	XP4601	TRANSISTOR	1	
	Q507	XP1501	TRANSISTOR-RESISTOR	1	
	Q601	2SB970X	TRANSISTOR	1	
	Q602	2SB970X	TRANSISTOR	1	
	Q603	2SB970X	TRANSISTOR	1	
	Q604	2SB970X	TRANSISTOR	1	
	Q607	2SB970X	TRANSISTOR	1	
	Q608	2SB970X	TRANSISTOR	1	
	Q609	2SD2216	TRANSISTOR	1	
	Q610	2SD2216	TRANSISTOR	1	
	Q2001	2SB970X	TRANSISTOR	1	
	Q2002	2SB1218	TRANSISTOR	1	
	Q2003	2SD1820	TRANSISTOR	1	
	Q2006	2SD2216	TRANSISTOR	1	
	Q3001	2SD2216	TRANSISTOR	1	
	Q3002	2SD2216	TRANSISTOR	1	
	Q3201	2SD2216	TRANSISTOR	1	
	Q3202	2SB1462-R	TRANSISTOR	1	
	Q3203	2SC4627	TRANSISTOR	1	
	Q3204	2SD2216	TRANSISTOR	1	
	QR601	UN9212	TRANSISTOR	1	
	QR604	UN9212	TRANSISTOR	1	
	QR606	UN9212	TRANSISTOR	1	
	QR2001	UN9115	TRANSISTOR	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	QR2002	XP4213	TRANSISTOR-RESISTOR	1	
	QR2003	XP4213	TRANSISTOR-RESISTOR	1	
	QR2004	UN9115	TRANSISTOR	1	
	QR2005	UN2130X	TRANSISTOR-RESISTOR	1	
	QR2006	UN9115	TRANSISTOR	1	
	QR2007	UN9213	TRANSISTOR	1	
	QR2008	UN9213	TRANSISTOR	1	
	QR2009	UN9115	TRANSISTOR	1	
	QR2010	UN9115	TRANSISTOR	1	
	QR2011	UN9213	TRANSISTOR	1	
	QR2013	UN9213	TRANSISTOR	1	
	QR2014	UN9213	TRANSISTOR	1	
	QR3001	UN9212	TRANSISTOR	1	
	R503	ERJ2GEJ823	M.RESISTOR CH 1/16W 82K	1	
	R504	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
	R507	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
	R508	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
	R509	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
	R5010	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
	R5011	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
	R512	ERJ2RHD102	M.RESISTOR CH 1/16W 1K	1	
	R513	ERJ2RHD152	M.RESISTOR CH 1/16W 1.5K	1	
	R514	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
	R515	ERJ2RHD152	M.RESISTOR CH 1/16W 1.5K	1	
	R516	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
	R517	ERJ2RHD152	M.RESISTOR CH 1/16W 1.5K	1	
	R518	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	1	
	R519	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
	R520	ERJ2RHD273	M.RESISTOR CH 1/16W 27K	1	
	R521	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R522	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R523	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
	R525	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R526	ERJ2GEJ153	M.RESISTOR CH 1/ 16W 15K	1	
	R527	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R528	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R529	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R530	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R533	ERJ2RHD104	M.RESISTOR CH 1/ 16W 100K	1	
	R534	ERJ2RHD273	M.RESISTOR CH 1/ 16W 27K	1	
	R536	ERJ2RHD104	M.RESISTOR CH 1/ 16W 100K	1	
	R537	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R538	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R540	ERJ2RHD273	M.RESISTOR CH 1/ 16W 27K	1	
	R541	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R542	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R543	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R544	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R545	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R546	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R547	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R548	ERJ2GEJ332	M.RESISTOR CH 1/ 16W 3.3K	1	
	R604	ERJ2RHD682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R605	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R606	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R607	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R608	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R609	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R610	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R611	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R612	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R613	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R616	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R617	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R619	ERJ2GEJ332	M.RESISTOR CH 1/ 16W 3.3K	1	
	R621	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R622	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R623	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R624	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R625	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R629	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R631	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R634	ERJ2GEJ183	M.RESISTOR CH 1/ 16W 18K	1	
	R635	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R636	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R637	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R639	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R640	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R642	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R644	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R647	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R648	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R649	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R650	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R651	ERJ2GEJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R652	ERJ2GEJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R653	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R656	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R657	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R658	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R659	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R661	ERJ2RHD333	M.RESISTOR CH 1/ 16W 93K	1	
	R663	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R664	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R665	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R666	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R667	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R668	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R671	ERJ2RHD563	M.RESISTOR CH 1/ 16W 56K	1	
	R673	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R674	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R677	ERJ2RHD302	M.RESISTOR CH 1/ 16W 3K	1	
	R680	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R683	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R685	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R687	ERJ2RHD393	M.RESISTOR CH 1/ 16W 39K	1	
	R690	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R694	ERJ2GEJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R695	ERJ2GEJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R696	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R697	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R698	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R699	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2001	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2002	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R2003	ERJ2GEJ220	M.RESISTOR CH 1/ 16W 22	1	
	R2004	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2005	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2006	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2007	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2008	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2009	ERJ2GEJ394	M.RESISTOR CH 1/ 16W 390K	1	
	R2011	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R2012	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2013	ERJ2GEJ684	M.RESISTOR CH 1/ 16W 680K	1	
	R2014	ERJ2GEJ474	M.RESISTOR CH 1/ 16W 470K	1	
	R2015	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2016	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R2017	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2018	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2019	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2020	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2021	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R2022	ERJ2GEJ332	M.RESISTOR CH 1/ 16W 3.3K	1	
	R2023	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R2024	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2025	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R2026	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R2027	ERJ8GEYG330	M.RESISTOR CH 1/ 8W 33	1	
	R2028	ERJ2GEJ681	M.RESISTOR CH 1/ 16W 680	1	
	R2029	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2030	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2031	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2032	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2033	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2034	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R2036	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R2037	ERJ2RHD223	M.RESISTOR CH 1/ 16W 22K	1	
	R2040	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2041	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R2042	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R2043	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2044	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2045	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R2046	ERJ2GEJ121	M.RESISTOR CH 1/ 16W 120	1	
	R2047	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2048	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2049	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2050	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2051	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2052	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2053	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R2054	ERJ2GEJ822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R2055	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2056	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2057	ERJ2GEJ822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R2058	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2059	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2060	ERJ2RHD273	M.RESISTOR CH 1/ 16W 27K	1	
	R2061	ERJ2RHD103	M.RESISTOR CH 1/ 16W 10K	1	
	R2062	ERJ2RHD473	M.RESISTOR CH 1/ 16W 47K	1	
	R2063	ERJ2RHD473	M.RESISTOR CH 1/ 16W 47K	1	
	R2064	ERJ2RHD273	M.RESISTOR CH 1/ 16W 27K	1	
	R2065	ERJ2RHD103	M.RESISTOR CH 1/ 16W 10K	1	
	R2066	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2067	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R2068	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R2069	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2072	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2073	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R2074	ERJ2GEJ183	M.RESISTOR CH 1/ 16W 18K	1	
	R2075	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R2076	ERJ2GEJ272	M.RESISTOR CH 1/ 16W 2.7K	1	
	R2077	ERJ2GEJ272	M.RESISTOR CH 1/ 16W 2.7K	1	
	R2078	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2080	ERJ2RHD563	M.RESISTOR CH 1/ 16W 56K	1	
	R2081	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	R2082	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R2083	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2085	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	R2087	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2088	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2089	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	R2090	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2092	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2093	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2095	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2097	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2098	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2099	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2100	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2101	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2102	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2103	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2104	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2107	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2108	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2109	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2110	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R2113	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R2114	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R2115	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R2116	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R2117	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R2118	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R2123	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2124	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2125	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2126	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2127	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2128	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2129	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2130	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2133	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2134	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2135	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R2136	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R2137	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R2138	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R2139	ERJ2GEJ681	M.RESISTOR CH 1/ 16W 680	1	
	R2140	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2142	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R2143	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R2199	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R3001	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3004	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3005	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3006	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R3009	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3010	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R3011	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R3012	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R3013	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R3014	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3016	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R3017	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3018	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3019	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3020	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R3022	ERJ2GEJ121	M.RESISTOR CH 1/ 16W 120	1	
	R3023	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R3024	ERJ2GEJ332	M.RESISTOR CH 1/ 16W 3.3K	1	
	R3027	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R3028	ERJ2GEJ183	M.RESISTOR CH 1/ 16W 18K	1	
	R3030	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R3031	ERJ2GEJ153	M.RESISTOR CH 1/ 16W 15K	1	
	R3032	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R3033	ERJ2GEJ153	M.RESISTOR CH 1/ 16W 15K	1	
	R3034	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R3036	ERJ2GEJ225	M.RESISTOR CH 1/ 16W 2.2M	1	
	R3037	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3038	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R3039	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R3041	ERJ2GEJ181	M.RESISTOR CH 1/ 16W 180	1	
	R3042	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3044	ERJ2GEJ221	M.RESISTOR CH 1/ 16W 220	1	
	R3046	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3048	ERJ2GEJ221	M.RESISTOR CH 1/ 16W 220	1	
	R3049	ERJ2GEJ221	M.RESISTOR CH 1/ 16W 220	1	
	R3050	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R3051	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R3052	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R3053	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3054	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R3055	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3056	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3057	ERJ2GEJ224	M.RESISTOR CH 1/ 16W 220K	1	
	R3058	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3075	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3076	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R3078	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R3079	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R3083	ERJ2GEJ121	M.RESISTOR CH 1/ 16W 120	1	
	R3085	ERJ2GEJ121	M.RESISTOR CH 1/ 16W 120	1	
	R3089	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3090	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3091	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3094	ERJ2GEJ391	M.RESISTOR CH 1/ 16W 390	1	
	R3095	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3097	ERJ2GEJ680	M.RESISTOR CH 1/ 16W 68	1	
	R3099	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3203	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R3204	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R3205	ERJ2RHD222	M.RESISTOR CH 1/ 16W 2.2K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3206	ERJ2GEJ121	M.RESISTOR CH 1/ 16W 120	1	
	R3207	ERJ2GEJ121	M.RESISTOR CH 1/ 16W 120	1	
	R3208	ERJ2GEJ822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R3209	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R3210	ERJ2GEJ561	M.RESISTOR CH 1/ 16W 560	1	
	R3211	ERJ2GEJ680	M.RESISTOR CH 1/ 16W 68	1	
	R3212	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3213	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R3214	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R3215	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3217	ERJ2RHD181	M.RESISTOR CH 1/ 16W 180	1	
	R3218	ERJ2RHD301	M.RESISTOR CH 1/ 16W 300	1	
	R3219	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3220	ERJ2GEJ221	M.RESISTOR CH 1/ 16W 220	1	
	R3221	ERJ2RHD222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R3222	ERJ2GEJ152	M.RESISTOR CH 1/ 16W 1.5K	1	
	R3223	ERJ2GEJ124	M.RESISTOR CH 1/ 16W 120K	1	
	R3224	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R3225	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R3226	ERJ2GEJ391	M.RESISTOR CH 1/ 16W 390	1	
	R3227	ERJ2GEJ224	M.RESISTOR CH 1/ 16W 220K	1	
	R3228	ERJ2GEJ224	M.RESISTOR CH 1/ 16W 220K	1	
	R3229	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R3230	ERJ2GEJ121	M.RESISTOR CH 1/ 16W 120	1	
	R3231	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3232	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3233	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R3234	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3235	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3236	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3237	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3238	ERJ2GEJ564	M.RESISTOR CH 1/ 16W 560K	1	
	R3239	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R3240	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R3241	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3242	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R3243	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3244	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3245	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R3247	ERJ2GEJ152	M.RESISTOR CH 1/ 16W 1.5K	1	
	R3248	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3249	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R3251	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R3252	ERJ2RHD391	M.RESISTOR CH 1/ 16W 390	1	
	R3254	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3255	ERJ2GEJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R3801	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3802	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3803	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R3804	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3805	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R3806	ERJ2GEJ394	M.RESISTOR CH 1/ 16W 390K	1	
	R3807	ERJ2RHD272	M.RESISTOR CH 1/ 16W 2.7K	1	
	R3809	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3811	ERJ2RKD560	M.RESISTOR CH 1/ 16W 56	1	
	R3812	ERJ2RKD560	M.RESISTOR CH 1/ 16W 56	1	
	R3813	ERJ2RKD560	M.RESISTOR CH 1/ 16W 56	1	
	R3814	ERJ2RKD560	M.RESISTOR CH 1/ 16W 56	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R3815	ERJ2RHD332	M.RESISTOR CH 1/ 16W 3.3K	1	
	R3816	ERJ2GEJ391	M.RESISTOR CH 1/ 16W 390	1	
	R3834	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3841	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3842	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R3844	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R3845	ERJ2GEJ270	M.RESISTOR CH 1/ 16W 27	1	
	R3998	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R3999	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R4001	ERJ2RHD223	M.RESISTOR CH 1/ 16W 22K	1	
	R4002	ERJ2RHD103	M.RESISTOR CH 1/ 16W 10K	1	
	R4003	ERJ2RHD682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R4004	ERJ2RHD682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R4005	ERJ2RHD223	M.RESISTOR CH 1/ 16W 22K	1	
	R4006	ERJ2RHD103	M.RESISTOR CH 1/ 16W 10K	1	
	R4017	ERJ2RHD104	M.RESISTOR CH 1/ 16W 100K	1	
	R4018	ERJ2RHD513	M.RESISTOR CH 1/ 16W 51K	1	
	R4501	ERJ2GEJ100	M.RESISTOR CH 1/ 16W 10	1	
	R4504	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R6505	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R6506	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R6510	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R6515	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	RA2001	EXB28V102J	RESISTOR-RESISTOR	1	
	RA2002	EXB24V102J	RESISTOR-RESISTOR	1	
	RA2003	EXB28V473J	RESISTOR-RESISTOR	1	
	RA2005	EXB28V103J	RESISTOR-RESISTOR	1	
	RA2006	EXB28V103J	RESISTOR-RESISTOR	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	RA2007	EXB28V103J	RESISTOR-RESISTOR	1	
	RA2008	EXB28V103J	RESISTOR-RESISTOR	1	
	RA2011	EXB24V102J	RESISTOR-RESISTOR	1	
	RA2012	EXB28V473J	RESISTOR-RESISTOR	1	
	RA2013	EXB24V331J	RESISTOR-RESISTOR	1	
	RA2014	EXB24V271J	RESISTOR-RESISTOR	1	
	RA2016	EXB24V102J	RESISTOR-RESISTOR	1	
	RA2018	EXB24V332J	RESISTOR-RESISTOR	1	
	RA2023	EXB28V102J	RESISTOR-RESISTOR	1	
	RA2024	EXB24V472J	RESISTOR-RESISTOR	1	
	RA3803	EXB24V103J	RESISTOR-RESISTOR	1	
	RA3804	EXB24V103J	RESISTOR-RESISTOR	1	
	RA3805	EXB24V103J	RESISTOR-RESISTOR	1	
	RA3806	EXB28V103J	RESISTOR-RESISTOR	1	
	RA3807	EXB28V103J	RESISTOR-RESISTOR	1	
	RA3808	EXB24V103J	RESISTOR-RESISTOR	1	
	RA3809	EXB24V103J	RESISTOR-RESISTOR	1	
	X2001	VSX0851	CRYSTAL OSCILLATOR	1	
	X2002	VSX0885	CRYSTAL OSCILLATOR	1	
	X2003	VSX0990	CERAMIC OSCILLATOR	1	
	X3001	VSX0991	CRYSTAL OSCILLATOR	1	
	X3003	VSX0846	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMZ2877	MAIN BARRIER	1	

12.2.3. CCD FLEX. CARD C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP22280A	CCD FLEX. CARD C.B.A.		(RTL)
	C292	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1	
	C293	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
	C294	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
	C295	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
	D291	MA143	DIODE	1	
	PS291	VJP4009C020	CONNECTOR (MALE) 20P	1	
	Q291	2SC3930	TRANSISTOR	1	
	R291	ERJ6GEYG560	M.RESISTOR CH 1/ 10W 56	1	
	R292	ERJ6GEYF472	M.RESISTOR CH 1/ 10W 4.7K	1	
			MISCELLANEOUS		
		VJB22280	FLEX. CARD	1	

12.2.4. LENS FLEX. CARD C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEK8084	LENS FLEX. CARD C.B.A.		(RTL)
			MISCELLANEOUS		
		0N1004-R	PHOTO INTERRUPTER	1	

12.2.5. E.V.F. (A) C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP28240D	E.V.F.(A) C.B.A.		(RTL)
	BL881	VLL0204	FLUORESCENT LAMP	1	
	Q881	2SK1299-3S	TRANSISTOR	1	
	R881	ERJ3GEYJ473	M.RESISTOR CH 1/ 16W 47K	1	
	T881	ETJ09K31AM	TRANSFORMER	1	
			MISCELLANEOUS		
		VWJ1174	FLAT CARD CABLE	1	

12.2.6. E.V.F. (B) C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP28244C	E.V.F.(B) C.B.A.		(RTL)
	C801	ECUM1A335KB	C.CAPACITOR CH 10V 3.3U	1	
	C802	ECGC1BB150	E.CAPACITOR CH 12.5V 15U	1	
	C827	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
	C829	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C830	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
	C832	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
	C833	ECST1CY225Z	T.CAPACITOR CH 16V 2.2U	1	
	C834	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C835	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C836	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C837	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C838	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C839	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C865	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C866	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	D801	MA338	DIODE	1	
	D803	1SS355	DIODE	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	FP801	VJS3319B018	CONNECTOR (FEMALE) 18P	1	
	FP802	VJS3319B016	CONNECTOR (FEMALE) 16P	1	
	IC802	ET2070F0C	IC	1	
	IC805	TA75S558F	IC	1	
	L801	VLQ0426J6R8	COIL 6.8UH	1	
	L803	VLQ0807K100	COIL 10UH	1	
	L804	VLQ0807K100	COIL 10UH	1	
	L805	VLQ0807K100	COIL 10UH	1	
	L881	VLQ0779K100	COIL 10UH	1	
	R802	ERJ3GEYG102	M.RESISTOR CH 1/ 16W 1K	1	
	R805	ERJ3GEYG102	M.RESISTOR CH 1/ 16W 1K	1	
	R807	ERJ3GEYG102	M.RESISTOR CH 1/ 16W 1K	1	
	R808	ERJ3GEYG102	M.RESISTOR CH 1/ 16W 1K	1	
	R832	ERJ3GEYJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R834	ERJ3GEYG102	M.RESISTOR CH 1/ 16W 1K	1	
	R835	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R836	ERJ3GEYG471	M.RESISTOR CH 1/ 16W 470	1	
	R841	ERJ3GEYJ101	M.RESISTOR CH 1/ 16W 100	1	
	R849	ERJ3GEYG471	M.RESISTOR CH 1/ 16W 470	1	
	R850	ERJ3GEYJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R851	ERJ3GEYJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R852	ERJ3GEYG682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R878	ERJ3RBD183	M.RESISTOR CH 1/ 16W 18K	1	
	R879	ERJ3RBD183	M.RESISTOR CH 1/ 16W 18K	1	
	R880	ERJ3RBD332	M.RESISTOR CH 1/ 16W 3.3K	1	

12.2.7. SUB C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP01829A	SUB C.B.A.		(RTL)
	C101	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C201	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C202	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C203	ECST1AX156Z	T.CAPACITOR CH 10V 15U	1	
	C204	ECST1CY475Z	T.CAPACITOR CH 16V 4.7U	1	
	C205	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	1	
	C206	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C207	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C208	ECUX1H070CCQ	C.CAPACITOR CH 50V 7P	1	
	C209	ECUX1H070CCQ	C.CAPACITOR CH 50V 7P	1	
	C210	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C211	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C212	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C213	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C214	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C216	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C217	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C218	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C219	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C220	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C221	ECUX1H101JCQ	C.CAPACITOR CH 50V 100P	1	
	C223	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C225	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C226	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C227	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C229	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1	
	C230	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C231	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C232	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C233	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C234	ECUX1H330JCQ	C.CAPACITOR CH 50V 33P	1	
	C235	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C237	ECUX1H680JCQ	C.CAPACITOR CH 50V 68P	1	
	C238	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C239	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
	C240	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C241	ECUM1C106KB	C.CAPACITOR CH 16V 10U	1	
	C301	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C302	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C304	ECUM1E391KBQ	C.CAPACITOR CH 25V 390P	1	
	C305	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C306	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C307	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C308	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C309	ECUX1H151JCQ	C.CAPACITOR CH 50V 150P	1	
	C310	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	1	
	C311	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C313	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C314	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C315	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C316	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C317	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C318	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C319	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C320	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C321	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C322	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C323	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C324	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C325	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C326	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C327	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C328	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C329	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C330	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C331	ECUX1H220JCQ	C.CAPACITOR CH 50V 22P	1	
	C332	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C334	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C335	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C337	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C338	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C701	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C702	ECUX1E332KBQ	C.CAPACITOR CH 25V 3300P	1	
	C703	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
	C704	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C705	ECST1AC476Z	T.CAPACITOR CH 10V 47U	1	
	C706	ECUX1E332KBQ	C.CAPACITOR CH 25V 3300P	1	
	C707	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C709	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C710	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C711	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C719	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C720	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C721	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C722	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C1001	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
	C1002	ECUM1C106VB	C.CAPACITOR CH 16V 10U	1	
	C1003	ECUM1C106VB	C.CAPACITOR CH 16V 10U	1	
	C1004	ECUM1C106KB	C.CAPACITOR CH 16V 10U	1	
	C1005	ECUX1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
	C1007	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C1008	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
	C1010	ECUM1C225KBM	C.CAPACITOR CH 16V 2.2U	1	
	C1011	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C1012	ECUM1C106VB	C.CAPACITOR CH 16V 10U	1	
	C1013	ECUX1E331KBQ	C.CAPACITOR CH 25V 330P	1	
	C1014	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
	C1015	ECUM1C225KBM	C.CAPACITOR CH 16V 2.2U	1	
	C1016	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C1017	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C1018	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
	C1019	ECST1EX475Z	T.CAPACITOR CH 25V 4.7U	1	
	C1020	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C1021	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C1022	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
	C1023	ECUX1E331KBQ	C.CAPACITOR CH 25V 330P	1	
	C1024	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
	C1025	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C1026	ECUM1C106VB	C.CAPACITOR CH 16V 10U	1	
	C1031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C1032	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
	C1033	ECUX1E392KBQ	C.CAPACITOR CH 25V 3900P	1	
	C1034	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	C1041	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C1042	ECUM1A335KBM	C.CAPACITOR CH 10V 3.3U	1	
	C1052	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	1	
	C1055	ECST1VX335Z	T.CAPACITOR CH 35V 3.3U	1	
	C1056	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C1059	ECUX1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
	C1061	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	
	C1062	ECUX1E332KBQ	C.CAPACITOR CH 25V 3300P	1	
	C1063	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
	C1064	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
	C1065	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C1066	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C1101	ECUX1H101JCQ	C.CAPACITOR CH 50V 100P	1	
	C1102	ECUM1C334KBM	C.CAPACITOR CH 16V 0.33U	1	
	C1103	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
	C1104	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C1105	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C1106	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C1107	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C1111	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
	C1112	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
	C1113	ECUX1H151JCQ	C.CAPACITOR CH 50V 150P	1	
	C1114	ECUX1H390JCQ	C.CAPACITOR CH 50V 39P	1	
	C1121	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
	C1122	ECUX1C822KBQ	C.CAPACITOR CH 16V 8200P	1	
	C1123	ECUX1H151JCQ	C.CAPACITOR CH 50V 150P	1	
	C1124	ECUX1H390JCQ	C.CAPACITOR CH 50V 39P	1	
	C1131	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
	C1132	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	1	
	C1133	ECUX1H151JCQ	C.CAPACITOR CH 50V 150P	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C1134	ECUX1H390JCQ	C.CAPACITOR CH 50V 39P	1	
	C1141	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
	C1142	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
	C1143	ECUX1H151JCQ	C.CAPACITOR CH 50V 150P	1	
	C1144	ECUX1H390JCQ	C.CAPACITOR CH 50V 39P	1	
	C1151	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	1	
	C1152	ECUX1C822KBQ	C.CAPACITOR CH 16V 8200P	1	
	C1153	ECUX1H151JCQ	C.CAPACITOR CH 50V 150P	1	
	C1154	ECUX1H390JCQ	C.CAPACITOR CH 50V 39P	1	
	C1155	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
	C1156	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	D201	MA2S728	DIODE	1	
	D202	1SS355	DIODE	1	
	D203	MA2S728	DIODE	1	
	D204	1SS355	DIODE	1	
	D205	1SS355	DIODE	1	
	D301	MA8056	DIODE	1	
	D302	1SS355	DIODE	1	
	D303	MA2S728	DIODE	1	
	D305	1SS355	DIODE	1	
	D306	MA132WA	DIODE	1	
	D333	1SS355	DIODE	1	
	D1001	MA2S728	DIODE	1	
	D1002	MA2S728	DIODE	1	
	D1051	MA2S728	DIODE	1	
	D1052	MA2S728	DIODE	1	
	D1061	MA2S728	DIODE	1	
	D1062	MA2S728	DIODE	1	
	D1101	MA8120-L	DIODE	1	
	D1102	MA2S728	DIODE	1	
	D1151	MA8160-M	DIODE	1	
	D1152	1SS355	DIODE	1	
	FL201	VLF1438	FILTER	1	
	FP303	VJS3320B020	CONNECTOR (FEMALE) 20P	1	
	FP304	VJS3319B017	CONNECTOR (FEMALE) 17P	1	
	FP701	VJS3320B018	CONNECTOR (FEMALE) 18P	1	
	IC101	RN5RG46AATRS	IC	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	IC201	UPD16510GR	IC	1	
	IC202	MN5268	IC	1	
	IC203	AN2108NFHQ	IC	1	
	IC204	TC7SH04FU	IC	1	
	IC205	TC7SHU04FU	IC	1	
	IC301	AN8133FHQ	IC	1	
	IC302	F437002EPBWL	IC	1	
	IC303	T91CU10F9922	IC	1	
	IC304	ZA4035W	IC	1	
	IC305	TA75S393F	IC	1	
	IC306	TC7SH08FU	IC	1	
	IC307	TC7SH08FU	IC	1	
	IC308	AK6480AF	IC	1	
	IC310	TC7S14FU	IC	1	
	IC701	TB6526F	IC	1	
	IC702	TB6526F	IC	1	
	IC706	NJM2115VA	IC	1	
	IC711	TA75W01FU	IC	1	
	IC1001	BA9734AKV	IC	1	
	IC1002	TA75S393F	IC	1	
	IC1003	NJM78L12UA	IC	1	
	L201	VLQ0426J100	COIL 10UH	1	
	L202	VLQ0807K100	COIL 10UH	1	
	L203	VLQ0464K6R8	COIL 6.8UH	1	
	L204	VLQ0807K100	COIL 10UH	1	
	L205	VLQ0426J1R5	COIL 1.5UH	1	
	L208	VLQ0779K331	COIL 330UH	1	
	L211	VLQ0426J220	COIL 22UH	1	
	L214	VLQ0779K101	COIL 100UH	1	
	L301	VLQ0807K100	COIL 10UH	1	
	L302	VLQ0807K100	COIL 10UH	1	
	L304	VLQ0807K100	COIL 10UH	1	
	L305	VLQ0807K100	COIL 10UH	1	
	L306	VLQ0807K100	COIL 10UH	1	
	L307	VLQ0807K100	COIL 10UH	1	
	L308	VLQ0807K100	COIL 10UH	1	
	L309	VLQ0807K100	COIL 10UH	1	
	L310	VLQ0807K100	COIL 10UH	1	
	L311	VLQ0807K100	COIL 10UH	1	
	L312	VLQ0807K100	COIL 10UH	1	
	L701	VLQ0807K100	COIL 10UH	1	
	L703	VLQ0807K100	COIL 10UH	1	
	L704	VLQ0807K100	COIL 10UH	1	
	L1001	VLQ0827M3R9	COIL 3.9UH	1	
	L1011	VLQ0827M3R9	COIL 3.9UH	1	
	L1012	VLQ0810M4R7	COIL 4.7UH	1	
	L1021	VLQ0827M150	COIL 15UH	1	
	L1031	VLQ0827M151	COIL 150UH	1	
	L1041	VLQ0827M330	COIL 33UH	1	
	L1051	VLQ0779K331	COIL 330UH	1	
	L1061	ELL6TRD003	CHOKE COIL	1	
	L1062	ELL6TRD004	CHOKE COIL	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	LB201	VLF1143A601	COIL 600UH	1	
	LB202	VLF1143A601	COIL 600UH	1	
	LB301	VLP0175	COIL	1	
	LB302	VLP0175	COIL	1	
	LB303	VLP0175	COIL	1	
	LB304	VLP0175	COIL	1	
	P101	VJP3904C012	CONNECTOR (MALE) 12P	1	
	PP301	VJP4143C080	CONNECTOR (MALE) 80P	1	
	PP302	VJP3846C070	CONNECTOR (MALE) 70P	1	
	PS201	VJS4009A020	CONNECTOR (FEMALE) 20P	1	
	Q101	2SB1073	TRANSISTOR	1	
	Q201	XP4601	TRANSISTOR	1	
	Q301	2SD1030	TRANSISTOR	1	
	Q303	2SB970X-R	TRANSISTOR	1	
	Q701	2SD601A	TRANSISTOR	1	
	Q703	XN4404	TRANSISTOR	1	
	Q704	XN4404	TRANSISTOR	1	
	Q705	XN4404	TRANSISTOR	1	
	Q706	XN4404	TRANSISTOR	1	
	Q707	2SB1073	TRANSISTOR	1	
	Q708	XP4501	TRANSISTOR-TRANSISTOR	1	
	Q1002	XP4401	TRANSISTOR	1	
	Q1003	XP1501	TRANSISTOR-RESISTOR	1	
	Q1004	2SB970X-R	TRANSISTOR	1	
	Q1005	2SB970X-R	TRANSISTOR	1	
	Q1006	2SD2216	TRANSISTOR	1	
	Q1007	XP1401	TRANSISTOR	1	
	Q1011	FP102	TRANSISTOR	1	
	Q1021	FP102	TRANSISTOR	1	
	Q1022	2SK2151	TRANSISTOR	1	
	Q1031	FP102	TRANSISTOR	1	
	Q1041	FP102	TRANSISTOR	1	
	Q1042	2SK2151	TRANSISTOR	1	
	Q1051	2SA1731-R	TRANSISTOR	1	
	Q1052	2SB970X	TRANSISTOR	1	
	Q1053	2SD2216	TRANSISTOR	1	
	Q1054	XP1401	TRANSISTOR	1	
	Q1055	2SD2216	TRANSISTOR	1	
	Q1061	FP102	TRANSISTOR	1	
	Q1062	FP102	TRANSISTOR	1	
	Q1101	2SB1462-R	TRANSISTOR	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	QR101	MRN1102	TRANSISTOR-RESISTOR	1	
	QR301	MRN1102	TRANSISTOR-RESISTOR	1	
	QR302	MRN1102	TRANSISTOR-RESISTOR	1	
	QR303	XP1213	TRANSISTOR-RESISTOR	1	
	QR304	MRN1104	TRANSISTOR-RESISTOR	1	
	QR305	XP1212	TRANSISTOR-RESISTOR	1	
	QR306	XP1212	TRANSISTOR-RESISTOR	1	
	QR307	XP1212	TRANSISTOR-RESISTOR	1	
	QR701	MRN1102	TRANSISTOR-RESISTOR	1	
	QR1001	UN2130X	TRANSISTOR-RESISTOR	1	
	QR1002	UN921F	TRANSISTOR-RESISTOR	1	
	QR1004	MRN2111	TRANSISTOR-RESISTOR	1	
	QR1005	XP1214	TRANSISTOR-RESISTOR	1	
	QR1006	MRN1104	TRANSISTOR-RESISTOR	1	
	QR1007	MRN2104	TRANSISTOR-RESISTOR	1	
	QR1008	MRN2104	TRANSISTOR-RESISTOR	1	
	QR1101	MRN1107	TRANSISTOR-RESISTOR	1	
	R101	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
	R102	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
	R103	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
	R104	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
	R201	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
	R202	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
	R203	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
	R204	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
	R205	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
	R206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
	R207	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R208	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R209	ERJ3GEYJ101	M.RESISTOR CH 1/ 16W 100	1	
	R210	ERJ2GEJ681	M.RESISTOR CH 1/ 16W 680	1	
	R212	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R213	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R214	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R216	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R217	ERJ2GEJ823	M.RESISTOR CH 1/ 16W 82K	1	
	R219	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R221	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R222	ERJ2GEJ561	M.RESISTOR CH 1/ 16W 560	1	
	R223	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R224	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R225	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R226	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R227	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R228	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R230	ERJ2GEJ561	M.RESISTOR CH 1/ 16W 560	1	
	R231	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R232	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R233	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R237	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R238	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R239	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R241	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R242	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R243	ERJ2GEJ332	M.RESISTOR CH 1/ 16W 3.3K	1	
	R245	ERJ2GEJ184	M.RESISTOR CH 1/ 16W 180K	1	
	R246	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R247	ERJ2GEJ274	M.RESISTOR CH 1/ 16W 270K	1	
	R248	ERJ6GEY0R00	M.RESISTOR CH 1/ 10W 0	1	
	R301	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R302	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R303,	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R304	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R305	ERJ2GEJ681	M.RESISTOR CH 1/ 16W 680	1	
	R306	ERJ2GEJ224	M.RESISTOR CH 1/ 16W 220K	1	
	R307	ERJ2GEJ224	M.RESISTOR CH 1/ 16W 220K	1	
	R308	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R309	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R310	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R311	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	R312	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R313	ERJ2GEJ821	M.RESISTOR CH 1/ 16W 820	1	
	R314	ERJ2GEJ154	M.RESISTOR CH 1/ 16W 150K	1	
	R315	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R316	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R317	ERJ3GEYJ225	M.RESISTOR CH 1/ 16W 2.2M	1	
	R318	ERJ2GEJ334	M.RESISTOR CH 2W 330K	1	
	R319	ERJ2RHD183	M.RESISTOR CH 1/ 16W 18K	1	
	R320	ERJ2RHD113	M.RESISTOR CH 1/ 16W 11K	1	
	R321	ERJ2GEJ822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R322	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R323	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R324	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R325	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R326	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R327	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R328	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R329	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R330	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R331	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R332	ERJ3GEYJ106	M.RESISTOR CH 1/ 16W 10M	1	
	R334	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R335	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R336	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R337	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R338	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R339	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R340	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R341	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R342	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R343	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R344	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R345	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R346	ERJ2GEJ152	M.RESISTOR CH 1/ 16W 1.5K	1	
	R347	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R348	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R351	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R352	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R353	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R354	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R356	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R360	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R361	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R368	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R369	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R371	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R372	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R379	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R701	ERJ3GEYJ3R3	M.RESISTOR CH 1/ 16W 3.3	1	
	R702	ERJ3GEYJ3R3	M.RESISTOR CH 1/ 16W 3.3	1	
	R703	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R705	ERJ3GEYJ2R2	M.RESISTOR CH 1/ 16W 2.2	1	
	R706	ERJ3GEYJ2R2	M.RESISTOR CH 1/ 16W 2.2	1	
	R707	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R708	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R709	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R716	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R718	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R720	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R721	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R722	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R723	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R726	ERJ3GEYG471	M.RESISTOR CH 1/ 16W 470	1	
	R727	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R728	ERJ2GEJ153	M.RESISTOR CH 1/ 16W 15K	1	
	R729	ERJ2GEJ393	M.RESISTOR CH 1/ 16W 39K	1	
	R730	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R731	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R732	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R733	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R734	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R735	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R736	ERJ2GEJ564	M.RESISTOR CH 1/ 16W 560K	1	
	R737	ERJ2GEJ221	M.RESISTOR CH 1/ 16W 220	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R738	ERJ2GEJ124	M.RESISTOR CH 1/ 16W 120K	1	
	R740	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R741	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R745	ERJ2GEJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R749	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R751	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R752	ERJ2GEJ332	M.RESISTOR CH 1/ 16W 3.3K	1	
	R753	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R761	ERJ2GEJ272	M.RESISTOR CH 1/ 16W 2.7K	1	
	R1001	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R1002	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R1003	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R1005	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R1006	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R1008	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R1010	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1011	ERJ6RBB682	M.RESISTOR CH 1/ 10W 6.8K	1	
	R1012	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1013	ERJ3RBD361	M.RESISTOR CH 1/ 16W 360	1	
	R1014	ERJ6RBB272	M.RESISTOR CH 1/ 10W 2.7K	1	
	R1015	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R1016	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R1017	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R1018	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R1020	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1021	ERJ6RBB272	M.RESISTOR CH 1/ 10W 2.7K	1	
	R1022	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1023	ERJ3RBD391	M.RESISTOR CH 1/ 16W 390	1	
	R1024	ERJ6RBB272	M.RESISTOR CH 1/ 10W 2.7K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R1025	ERJ2GEJ331	M.RESISTOR CH 1/ 16W 330	1	
	R1026	ERJ2GEJ394	M.RESISTOR CH 1/ 16W 390K	1	
	R1027	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R1029	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R1030	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1031	ERJ6RBB272	M.RESISTOR CH 1/ 10W 2.7K	1	
	R1032	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1033	ERJ3RED220	M.RESISTOR CH 1/ 16W 22	1	
	R1034	ERJ6RBB272	M.RESISTOR CH 1/ 10W 2.7K	1	
	R1035	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R1036	ERJ2GEJ561	M.RESISTOR CH 1/ 16W 560	1	
	R1037	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R1038	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R1041	ERJ6RBB152	M.RESISTOR CH 1/ 10W 1.5K	1	
	R1042	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1043	ERJ3RBD681	M.RESISTOR CH 1/ 16W 680	1	
	R1044	ERJ6RBB272	M.RESISTOR CH 1/ 10W 2.7K	1	
	R1046	ERJ2GEJ225	M.RESISTOR CH 1/ 16W 2.2M	1	
	R1047	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R1048	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R1049	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R1050	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1051	ERJ6RBB273	M.RESISTOR CH 1/ 10W 27K	1	
	R1052	ERJ3RED820	M.RESISTOR CH 1/ 16W 82	1	
	R1053	ERJ3RBD301	M.RESISTOR CH 1/ 16W 300	1	
	R1054	ERJ6RBB272	M.RESISTOR CH 1/ 10W 2.7K	1	
	R1057	ERJ2GEJ124	M.RESISTOR CH 1/ 16W 120K	1	
	R1058	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R1059	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R1060	ERJ2GEJ124	M.RESISTOR CH 1/ 16W 120K	1	
	R1061	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	R1062	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	R1063	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R1081	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R1101	ERJ3RBD223	M.RESISTOR CH 1/ 16W 22K	1	
	R1102	ERJ6GEYF472	M.RESISTOR CH 1/ 10W 4.7K	1	
	R1103	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R1104	ERJ2GEJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R1105	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R1107	ERJ2GEJ225	M.RESISTOR CH 1/ 16W 2.2M	1	
	R1108	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R1109	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R1111	ERJ2GEJ151	M.RESISTOR CH 1/ 16W 150	1	
	R1112	ERJ2GEJ822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R1121	ERJ2GEJ151	M.RESISTOR CH 1/ 16W 150	1	
	R1122	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R1131	ERJ2GEJ151	M.RESISTOR CH 1/ 16W 150	1	
	R1132	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R1136	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R1141	ERJ2GEJ151	M.RESISTOR CH 1/ 16W 150	1	
	R1142	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R1151	ERJ2GEJ151	M.RESISTOR CH 1/ 16W 150	1	
	R1152	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R1153	ERJ2RHD123	M.RESISTOR CH 1/ 16W 12K	1	
	R1154	ERJ2RHD473	M.RESISTOR CH 1/ 16W 47K	1	
	R1155	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R1156	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R1157	ERJ2GEJ153	M.RESISTOR CH 1/ 16W 15K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R1158	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R1159	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R1178	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R1179	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R1253	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R1254	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	RA301	EXB28V102J	RESISTOR-RESISTOR	1	
	RA302	EXB28V102J	RESISTOR-RESISTOR	1	
	RA311	EXB28V222J	RESISTOR-RESISTOR	1	
	RA312	EXB28V222J	RESISTOR-RESISTOR	1	
	RA313	EXB28V222J	RESISTOR-RESISTOR	1	
	T1001	VTP0499	TRANSFORMER	1	
	X201	VSX0825	CRYSTAL OSCILLATOR	1	
	X301	VSX0947	CERAMIC OSCILLATOR	1	

12.2.8. DRIVE C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP02566A	DRIVE C.B.A.		(RTL)
	C2201	ECUX1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
	C2202	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C2203	ECUX1H270JCQ	C.CAPACITOR CH 50V 27P	1	
	C2204	ECUM1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
	C2205	ECUX1E332KBQ	C.CAPACITOR CH 25V 3300P	1	
	C2207	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C2208	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2209	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
	C2210	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C2211	ECST0JY475Z	T.CAPACITOR CH 6.3V 4.7U	1	
	C2212	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2213	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2214	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2215	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2217	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2218	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2219	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2223	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2225	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2226	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2227	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2230	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2231	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C2232	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2233	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C2234	ECUX1H101JCQ	C.CAPACITOR CH 50V 100P	1	
	C2235	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2236	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2237	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C2238	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2239	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C2240	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C2245	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C2246	ECUM1A564KBM	C.CAPACITOR CH 10V 0.56U	1	
	C2247	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C2248	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C2249	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C2250	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C2251	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C2255	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2256	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C2257	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	FP2002	VJS3319B022	CONNECTOR (FEMALE) 22P	1	
	FP2003	VJS3319B009	CONNECTOR (FEMALE) 9P	1	
	FP2004	VJS3320B030	CONNECTOR (FEMALE) 30P	1	
	IC2201	TB6519AF	IC	1	
	IC2202	MDC05TR	IC	1	
	IC2203	MDC05TR	IC	1	
	IC2204	TA75S393F	IC	1	
	IC2205	TC75W54FU	IC	1	
	IC2206	TC7S86FU	IC	1	
	IC2207	BA6289F	IC	1	
	PS2001	VJS3989C050	CONNECTOR (FEMALE) 50P	1	
	Q2201	2SB1462-R	TRANSISTOR	1	
	Q2202	2SD2216	TRANSISTOR	1	
	R2201	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R2202	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R2204	ERJ2GEJ224	M.RESISTOR CH 1/ 16W 220K	1	
	R2205	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2207	ERJ2GEJ561	M.RESISTOR CH 1/ 16W 560	1	
	R2208	ERJ8GEYJR33	M.RESISTOR CH 1/ 8W 0.33	1	
	R2209	ERJ8GEYJR47	M.RESISTOR CH 1/ 8W 0.47	1	
	R2210	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R2211	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R2212	ERJ8RQJR27	M.RESISTOR CH 1/ 8W 0.27	1	
	R2213	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R2214	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R2215	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R2216	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2220	ERJ2RHD104	M.RESISTOR CH 1/ 16W 100K	1	
	R2221	ERJ2RHD561	M.RESISTOR CH 1/ 16W 560	1	
	R2222	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2223	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R2224	ERJ2GEJ182	M.RESISTOR CH 1/ 16W 1.8K	1	
	R2225	ERJ2GEJ394	M.RESISTOR CH 1/ 16W 390K	1	
	R2226	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2227	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R2228	ERJ2GEJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R2229	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R2231	ERJ3GEYJ101	M.RESISTOR CH 1/ 16W 100	1	
	R2232	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R2233	ERJ6GEY0R00	M.RESISTOR CH 1/ 10W 0	1	
	R2234	ERJ2GEJ394	M.RESISTOR CH 1/ 16W 390K	1	
	R2235	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R2236	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R2237	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R2238	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	RA2201	EXBV8V331J	RESISTOR-RESISTOR	1	
	RA2203	EXBV4V102J	RESISTOR-RESISTOR	1	
			MISCELLANEOUS		
		VMZ2839	INSULATION BARRIER	1	

12.2.9. SPEAKER AMP C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP04714A	SPEAKER AMP C.B.A.		(RTL)
	C4051	ECUX1E472KBQ	C.CAPACITOR CH 25V 4700P	1	
	C4052	ECUX1E472KBQ	C.CAPACITOR CH 25V 4700P	1	
	C4053	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4054	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4055	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C4056	ECUX1H221JCQ	C.CAPACITOR CH 50V 220P	1	
	C4057	ECUX1H221JCQ	C.CAPACITOR CH 50V 220P	1	
	C4059	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4201	ECUM0J105KBV	C.CAPACITOR CH 6.3V 1U	1	
	C4202	ECUM0J105KBV	C.CAPACITOR CH 6.3V 1U	1	
	C4203	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4204	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C4205	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	1	
	C4206	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C4207	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
	C4208	ECUX1E122KBQ	C.CAPACITOR CH 25V 1200P	1	
	C4209	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	1	
	C4210	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	1	
	C4211	ECUX1E122KBQ	C.CAPACITOR CH 25V 1200P	1	
	C4212	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C4213	ECST0JX476Z	T.CAPACITOR CH 6.3V 47U	1	
	C4214	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4215	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4216	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4217	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4218	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4219	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C4221	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4222	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4238	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4247	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4702	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4703	ECUX1C153KBQ	C.CAPACITOR CH 16V 0.015U	1	
	C4704	ECUX1C153KBQ	C.CAPACITOR CH 16V 0.015U	1	
	C4705	ECUX1C153KBQ	C.CAPACITOR CH 16V 0.015U	1	
	C4901	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C4902	ECST1CY105Z	T.CAPACITOR CH 16V 1U	1	
	C4905	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4906	ECST1CY105Z	T.CAPACITOR CH 16V 1U	1	
	C4910	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4911	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4914	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4915	ECUX1A473KBQ	C.CAPACITOR CH 10V 0.047U	1	
	C4916	ECUX1A104KBQ	C.CAPACITOR CH 10V 0.1U	1	
	C4917	ECUX1A473KBQ	C.CAPACITOR CH 10V 0.047U	1	
	D4051	MA132WA	DIODE	1	
	D4052	MA132WK	DIODE	1	
	D4241	MA133	DIODE	1	
	D4242	MA2S728	DIODE	1	
	FL4051	VLF1445	FILTER	1	
	FL4052	VLF1341B107	FILTER	1	
	FL4053	VLF1376A505	FILTER	1	
	FL4054	VLF1376A505	FILTER	1	
	FP4901	VJS4018B006	CONNECTOR (FEMALE) 6P	1	
	IC4201	BA7785FS	IC	1	
	IC4202	TC7S66FU	IC	1	
	IC4701	M9831-103MSK	IC	1	
	J4050	VJJ0567	EDIT-E JACK (5P)	1	
	J4051	VJJ0612	AV JACK	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	J4901	VJJ0414	MIC JACK	1	
	L4051	VLQ0780K470	COIL 47UH	1	
	L4201	VLQ0779M1R0	COIL 1UH	1	
	L4701	VLQ0807K100	COIL 10UH	1	
	L4901	VLQ0807K100	COIL 10UH	1	
	P3001	VJP4004C002	CONNECTOR (MALE) 2P	1	
	PP4901	VJP3847D030	CONNECTOR (MALE) 30P	1	
	Q4241	2SD968A-S	TRANSISTOR	1	
	Q4242	XN4504	TRANSISTOR	1	
	Q4701	2SD1979	TRANSISTOR	1	
	Q4702	XP4401	TRANSISTOR	1	
	Q4901	2SD2216	TRANSISTOR	1	
	Q4902	2SB1462-R	TRANSISTOR	1	
	Q4903	2SD2216	TRANSISTOR	1	
	Q4904	2SB1462-R	TRANSISTOR	1	
	Q4905	2SD2216	TRANSISTOR	1	
	QR4201	MRN1104	TRANSISTOR-RESISTOR	1	
	QR4202	MRN1104	TRANSISTOR-RESISTOR	1	
	QR4203	MRN1103	TRANSISTOR-RESISTOR	1	
	QR4241	MRN1103	TRANSISTOR-RESISTOR	1	
	QR4242	MRN2103	TRANSISTOR-RESISTOR	1	
	QR4243	MRN2103	TRANSISTOR-RESISTOR	1	
	QR4903	MRN1103	TRANSISTOR-RESISTOR	1	
	QR4904	MRN1103	TRANSISTOR-RESISTOR	1	
	R4053	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
	R4054	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
	R4056	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
	R4057	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1	
	R4058	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
	R4201	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
	R4202	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
	R4207	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4208	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R4209	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R4211	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R4214	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R4215	ERJ2GEJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R4223	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R4231	ERJ2GEJ153	M.RESISTOR CH 1/ 16W 15K	1	
	R4232	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R4236	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R4237	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R4242	ERJ2GEJ681	M.RESISTOR CH 1/ 16W 680	1	
	R4244	ERJ2GEJ124	M.RESISTOR CH 1/ 16W 120K	1	
	R4251	ERJ2GEJ221	M.RESISTOR CH 1/ 16W 220	1	
	R4252	ERJ2GEJ221	M.RESISTOR CH 1/ 16W 220	1	
	R4702	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R4703	ERJ2GEJ154	M.RESISTOR CH 1/ 16W 150K	1	
	R4704	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R4705	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R4706	ERJ2GEJ822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R4707	ERJ2GEJ822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R4708	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R4709	ERJ2GEJ392	M.RESISTOR CH 1/ 16W 3.9K	1	
	R4710	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R4711	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R4902	ERJ3GEY0R00	M.RESISTOR CH 1/ 16W 0	1	
	R4905	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R4906	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R4907	ERJ6GEYG154	M.RESISTOR CH 1/ 10W 150K	1	
	R4908	ERJ6GEYG563	M.RESISTOR CH 1/ 10W 56K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R4909	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R4910	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R4911	ERJ2GEJ151	M.RESISTOR CH 1/ 16W 150	1	
	R4912	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R4913	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R4914	ERJ6GEYG154	M.RESISTOR CH 1/ 10W 150K	1	
	R4915	ERJ6GEYG563	M.RESISTOR CH 1/ 10W 56K	1	
	R4916	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R4917	ERJ2GEJ562	M.RESISTOR CH 1/ 16W 5.6K	1	
	R4918	ERJ2GEJ151	M.RESISTOR CH 1/ 16W 150	1	
	R4919	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R4923	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R4924	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R4925	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R4926	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	R4927	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R4928	ERJ2GEJ222	M.RESISTOR CH 1/ 16W 2.2K	1	
	R4929	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R4930	ERJ2GEJ122	M.RESISTOR CH 1/ 16W 1.2K	1	
	X4701	VSX0982	CRYSTAL OSCILLATOR	1	

12.2.10. MONITOR C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP26213A	MONITOR C.B.A.		(RTL)
	C901	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C902	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
	C903	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
	C904	ECUX1H150JCQ	C.CAPACITOR CH 50V 15P	1	
	C905	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C906	ECUX1E561KBQ	C.CAPACITOR CH 25V 560P	1	
	C907	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C908	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C909	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C910	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
	C911	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	1	
	C912	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C913	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
	C914	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C915	ECUM1C106VB	C.CAPACITOR CH 16V 10U	1	
	C916	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C917	ECUM1A105KBM	C.CAPACITOR CH 10V 1U	1	
	C918	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1	
	C919	ECUX1A334KBV	C.CAPACITOR CH 10V 0.33U	1	
	C920	ECST1AY475Z	T.CAPACITOR CH 10V 4.7U	1	
	C922	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C923	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C924	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C925	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C926	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C927	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C928	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C930	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
	C931	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
	C932	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
	C933	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	1	
	D901	MA329	DIODE	1	
	D902	MA111	DIODE	1	
	FP901	VJS4194B026	CONNECTOR (FEMALE) 26P	1	
	FP902	VJS3319B008	CONNECTOR (FEMALE) 8P	1	
	FP903	VJS3971B021	CONNECTOR (FEMALE) 21P	1	
	FP904	VJS3971B021	CONNECTOR (FEMALE) 21P	1	
	FP905	VJS3319B006	CONNECTOR (FEMALE) 6P	1	
	IC901	CM7018L3	IC	1	
	IC902	TA75S558F	IC	1	
	IC903	TA75S558F	IC	1	
	IC904	TC7S14FU	IC	1	
	IC905	TC7S04FU	IC	1	
	IC906	TA75S558F	IC	1	
	IC907	TA75S558F	IC	1	
	L901	VLQ0807K220	COIL 22UH	1	
	L902	VLQ0426J100	COIL 10UH	1	
	L903	VLQ0807K100	COIL 10UH	1	
	L904	VLQ0807K100	COIL 10UH	1	
	L905	VLQ0807K100	COIL 10UH	1	
	L906	VLQ0807K100	COIL 10UH	1	
	L907	VLQ0807K100	COIL 10UH	1	
	L908	VLQ0807K100	COIL 10UH	1	
	L909	VLQ0807K100	COIL 10UH	1	
	L910	VLQ0807K100	COIL 10UH	1	
	Q901	2SD2216	TRANSISTOR	1	
	Q902	2SD2216	TRANSISTOR	1	
	Q903	2SD2216	TRANSISTOR	1	
	Q904	2SD2216	TRANSISTOR	1	
	Q905	XP4601	TRANSISTOR	1	
	Q906	XP4601	TRANSISTOR	1	
	QR901	XP4314	TRANSISTOR	1	
	QR902	MRN1104	TRANSISTOR-RESISTOR	1	
	R901	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R902	ERJ3GEYJ105	M.RESISTOR CH 1/ 16W 1M	1	
	R903	ERJ3GEYJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R904	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R905	ERJ3GEYJ683	M.RESISTOR CH 1/ 16W 68K	1	
	R906	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R907	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R908	ERJ3GEYJ124	M.RESISTOR CH 1/ 16W 120K	1	
	R909	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R910	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R911	ERJ2GEJ472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R912	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R916	ERJ3RBD182	M.RESISTOR CH 1/ 16W 1.8K	1	
	R917	ERJ3GEY0R00	M.RESISTOR CH 1/ 16W 0	1	
	R918	ERJ3GEYG682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R919	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R920	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R921	ERJ2GEJ101	M.RESISTOR CH 1/ 16W 100	1	
	R922	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R923	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R924	ERJ3GEYJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R925	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R926	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R927	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R928	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R930	ERJ2GEJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R931	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R932	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R933	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R934	ERJ2GEJ473	M.RESISTOR CH 1/ 16W 47K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R935	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R936	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R937	ERJ3GEYJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R938	ERJ2GEJ682	M.RESISTOR CH 1/ 16W 6.8K	1	
	R939	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R940	ERJ3GEYJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R941	ERJ3GEYJ220	M.RESISTOR CH 1/ 16W 22	1	
	R942	ERJ2GEJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R955	ERJ2GEJ563	M.RESISTOR CH 1/ 16W 56K	1	
	R959	ERJ2RHD104	M.RESISTOR CH 1/ 16W 100K	1	
	R960	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R961	ERJ2GEJ223	M.RESISTOR CH 1/ 16W 22K	1	

12.2.11. HALL SENSOR FLEX. CARD

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06C69A	HALL SENSOR FLEX. CARD		(RTL)
	IC991	DN8797MS	HALL IC	1	
	IC992	DN8797MS	HALL IC	1	

12.2.12. RS232C C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP01830A	RS232C C.B.A.		(RTL)
	B1201	VL2020/1HF	LITHIUM BATTERY	1	
	C1202	ECST1VX335Z	T.CAPACITOR CH 35V 3.3U	1	
	C1203	ECST1VX335Z	T.CAPACITOR CH 35V 3.3U	1	
	C1204	ECST1DY335Z	T.CAPACITOR CH 20V 3.3U	1	
	C1205	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
	C1206	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C1207	ECST1DY335Z	T.CAPACITOR CH 20V 3.3U	1	
	C1208	ECST1VX335Z	T.CAPACITOR CH 35V 3.3U	1	
	C1209	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
	C1210	ECST0JY226Z	T.CAPACITOR CH 6.3V 22U	1	
	D1201	MA3062	DIODE	1	
	D1202	MA2S728	DIODE	1	
	FL1201	VLF1376A256	FILTER	1	
	FL1202	VLF1394	FILTER	1	
	FL1203	VLF1378	FILTER	1	
	FP1202	VJS4018B014	CONNECTOR (FEMALE) 14P	1	
	IC1201	UPD4721GS	IC	1	
⚠	IP1201	VSF0233F31	FUSE	1	
	JK1201	VEJ1839	JACK BOARD	1	
	L1201	VLQ0807K100	COIL 10UH	1	
	LB1201	VLP0307	COIL	1	
	LB1202	VLP0307	COIL	1	
	P1201	VJP3904C012	CONNECTOR (MALE) 12P	1	
	PS1201	VJS3320B010	CONNECTOR (FEMALE) 10P	1	
	R1202	ERJ3GEYJ101	M.RESISTOR CH 1/ 16W 100	1	
	R1203	ERJ3GEYG822	M.RESISTOR CH 1/ 16W 8.2K	1	
	R1204	ERJ3GEYJ563	M.RESISTOR CH 1/ 16W 56K	1	

			16W 56K		
	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R1205	ERJ3GEYJ101	M.RESISTOR CH 1/ 16W 100	1	
	R1206	ERJ3GEYJ101	M.RESISTOR CH 1/ 16W 100	1	
	R1207	ERJ3GEYJ101	M.RESISTOR CH 1/ 16W 100	1	
	R1208	ERJ3GEYG102	M.RESISTOR CH 1/ 16W 1K	1	
	R1213	ERJ3GEYJ680	M.RESISTOR CH 1/ 16W 68	1	
	R1214	ERJ3GEYJ680	M.RESISTOR CH 1/ 16W 68	1	
	R1215	ERJ3GEYJ181	M.RESISTOR CH 1/ 16W 180	1	
	R1221	ERJ6GEY0R00	M.RESISTOR CH 1/ 10W 0	1	
	R1222	ERJ6GEY0R00	M.RESISTOR CH 1/ 10W 0	1	
			MISCELLANEOUS		
		VEE0D94	WIRE CABLE	1	

12.2.13. MENU OPERATION C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06C66A	MENU OPERATION C.B.A.		(RTL)
	FP6803	VJS3319B006	CONNECTOR (FEMALE) 6P	1	
	S6901	VSR0235	SWITCH	1	

12.2.14. MF RING U.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VXP1896	MF RING U.		(RTL)
	PC710	CNA1312K01VT	PHOTO SENSOR	1	
	PC711	CNA1312K01VT	PHOTO SENSOR	1	
			MISCELLANEOUS		
		XQN16+CJ5	SCREW	3	

12.2.15. FRONT C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06C64A	FRONT C.B.A.		(RTL)
	C6401	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
	C6402	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
	C6403	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
	D6401	PH310	DIODE	1	
	D6402	CL150UR	DIODE	1	
	D6403	MA8056	DIODE	1	
	FP6401	VJS3452A012	CONNECTOR (FEMALE) 12P	1	
	FP6402	VJP3172D004	CONNECTOR (MALE) 4P	1	
	IR6401	VEK8283	IR RECEIVER UNIT	1	
	L6401	VLQ0807K100	COIL 10UH	1	
	S6401	EVQPA501K	PUSH SWITCH	1	
	S6402	EVQPA501K	PUSH SWITCH	1	

12.2.16. REAR OPERATION C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06C65A	REAR OPERATION C.B.A.		(RTL)
	D6701	CL150YG-CD	DIODE	1	
	D6702	CL150UR	DIODE	1	
	FP6701	VJS3452A014	CONNECTOR (FEMALE) 14P	1	
	FP6702	VJS3319B005	CONNECTOR (FEMALE) 5P	1	
	S6701	ESE103119	SWITCH	1	
	S6702	VMG0763	RUBBER SWITCH	1	
	S6703	EVQPA501K	PUSH SWITCH	1	
	S6704	ESD165236	SWITCH	1	

12.2.17. MIC UNIT

	Ref. No.	Part No.	Part Name & Description		Remarks
	■	VEK8596	MIC UNIT		(RTL)
	C4801	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
	C4802	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
	C4803	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	1	
	C4804	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
	C4805	ECUM1C154KBN	C.CAPACITOR CH 16V 0.15U	1	
	C4806	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
	C4807	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
	C4808	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
	C4809	ECUM1C154KBN	C.CAPACITOR CH 16V 0.15U	1	
	C4810	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	1	
	C4814	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
	C4816	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
	C4817	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	1	
	C4830	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	1	
	FP4802	VJS3319B006	CONNECTOR (FEMALE) 6P	1	
	FP4803	VJS3320B005	CONNECTOR (FEMALE) 5P	1	
	IC4801	NJM2112V	IC	1	
	Q4805	2SD1819A	TRANSISTOR	1	
	Q4810	2SD1819A	TRANSISTOR	1	
	Q4811	2SD1819A	TRANSISTOR	1	
	R4801	ERJ6GEYG392	M.RESISTOR CH 1/ 10W 3.9K	1	
	R4802	ERJ6GEYG392	M.RESISTOR CH 1/ 10W 3.9K	1	
	R4803	ERJ6GEYG392	M.RESISTOR CH 1/ 10W 3.9K	1	
	R4804	ERJ6GEYG392	M.RESISTOR CH 1/ 10W 3.9K	1	
	R4805	ERJ3GEYJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R4806	ERJ3GEYJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R4807	ERJ3GEYJ183	M.RESISTOR CH 1/ 16W 18K	1	

	Ref. No.	Part No.	Part Name & Description		Remarks
	R4808	ERJ3GEYJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R4809	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R4810	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R4811	ERJ3GEYJ273	M.RESISTOR CH 1/ 16W 27K	1	
	R4812	ERJ3GEYJ473	M.RESISTOR CH 1/ 16W 47K	1	
	R4813	ERJ3GEYJ183	M.RESISTOR CH 1/ 16W 18K	1	
	R4814	ERJ3GEYJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R4815	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R4816	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R4817	ERJ3GEYJ153	M.RESISTOR CH 1/ 16W 15K	1	
	R4818	ERJ3GEYJ153	M.RESISTOR CH 1/ 16W 15K	1	
	R4823	ERJ3GEYJ223	M.RESISTOR CH 1/ 16W 22K	1	
	R4824	ERJ3GEYJ333	M.RESISTOR CH 1/ 16W 33K	1	
	R4839	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R4860	ERJ3GEYJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R4861	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
	R4863	ERJ3GEYJ104	M.RESISTOR CH 1/ 16W 100K	1	
	R4864	ERJ3GEYG472	M.RESISTOR CH 1/ 16W 4.7K	1	
			MISCELLANEOUS		
		VGQ5017	MIC CASE	1	

12.2.18. TOP OPERATION C.B.A.

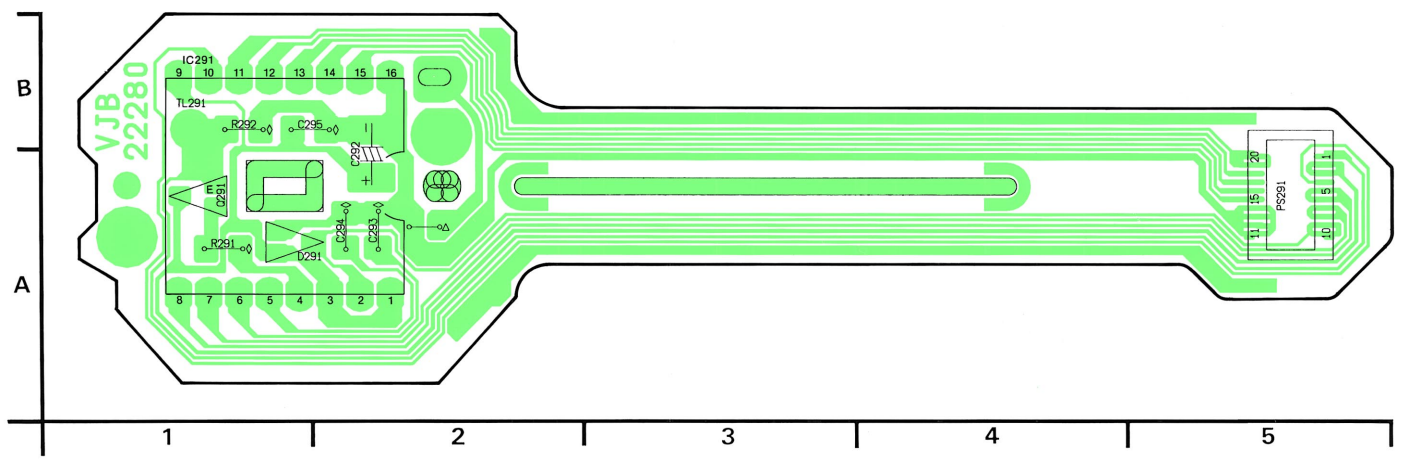
	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06C84A	TOP OPERATION C.B.A.		(RTL)
	FP6801	VJS3320B007	CONNECTOR (FEMALE) 7P	1	
	S6801	EVQQW101M	SWITCH	1	
	S6802	EVQQW101M	SWITCH	1	
	S6803	EVQQW101M	SWITCH	1	
	S6804	EVQQW101M	SWITCH	1	
	S6806	EVQQW101M	SWITCH	1	

12.2.19. HEAD AMP C.B.A.

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	■	VEP05352A	HEAD AMP C.B.A.		(RTL)
	C5001	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5002	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5004	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5007	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5010	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5013	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	
	C5014	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
	C5015	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5016	ECUX1H330JCQ	C.CAPACITOR CH 50V 33P	1	
	C5017	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5018	ECUX1H220JCQ	C.CAPACITOR CH 50V 22P	1	
	C5019	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5020	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
	C5021	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
	C5023	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5024	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5025	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
	C5026	ECUX1E152KBQ	C.CAPACITOR CH 25V 1500P	1	
	C5027	ECUX1H330JCQ	C.CAPACITOR CH 50V 33P	1	
	C5028	ECUX1E122KBQ	C.CAPACITOR CH 25V 1200P	1	
	C5029	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
	C5030	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	1	
	C5031	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5032	ECUX1H470JCQ	C.CAPACITOR CH 50V 47P	1	
	C5033	ECUX1E681KBQ	C.CAPACITOR CH 25V 680P	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	C5034	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5035	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
	C5036	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
	C5037	EEJK0JS106	E.CAPACITOR 6.3V 10U	1	
	C5038	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5039	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	C5040	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
	FP5001	VJS3320B008	CONNECTOR (FEMALE) 8P	1	
	IC5001	AN3731FHQ	IC	1	
	L5002	VLQ0808J220	COIL 22UH	1	
	L5003	VLQ0808J220	COIL 22UH	1	
	L5005	VLQ0807M4R7	COIL 4.7UH	1	
	L5007	VLQ0807M4R7	COIL 4.7UH	1	
	Q5002	2SC3937	TRANSISTOR	1	
	Q5003	2SC3937	TRANSISTOR	1	
	Q5005	2SD1819A	TRANSISTOR	1	
	Q5006	2SD1819A	TRANSISTOR	1	
	R5002	ERJ2GEJ471	M.RESISTOR CH 1/ 16W 470	1	
	R5003	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R5004	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R5005	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R5010	ERJ2GEJ680	M.RESISTOR CH 1/ 16W 68	1	
	R5012	ERJ3GEYG152	M.RESISTOR CH 1/ 16W 1.5K	1	
	R5013	ERJ3GEYJ123	M.RESISTOR CH 1/ 16W 12K	1	
	R5014	ERJ2GEJ271	M.RESISTOR CH 1/ 16W 270	1	
	R5015	ERJ2GEJ271	M.RESISTOR CH 1/ 16W 270	1	
	R5016	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R5017	ERJ2GEJ102	M.RESISTOR CH 1/ 16W 1K	1	
	R5018	ERJ2GEJ680	M.RESISTOR CH 1/ 16W 68	1	
	R5019	ERJ3GEYJ123	M.RESISTOR CH 1/ 16W 12K	1	

	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	R5020	ERJ3GEYG152	M.RESISTOR CH 1/ 16W 1.5K	1	
	R5021	ERJ3GEYJ100	M.RESISTOR CH 1/ 16W 10	1	
	R5024	ERJ2GEJ103	M.RESISTOR CH 1/ 16W 10K	1	
	R5025	ERJ2GEJ271	M.RESISTOR CH 1/ 16W 270	1	
	R5026	ERJ2GE0R00	M.RESISTOR CH 1/ 16W 0	1	
	R5028	ERJ2GEJ152	M.RESISTOR CH 1/ 16W 1.5K	1	
	R5029	ERJ6GEY0R00	M.RESISTOR CH 1/ 10W 0	1	


B
A
1
2
3
4
5
VJB
22280
IC291
9 10 11 12 13 14 15 16
TL291
R292
C295
C292
C291
R291
C294
C293
D291
8 7 6 5 4 3 2 1
PS291
20
1
15
5
11
10

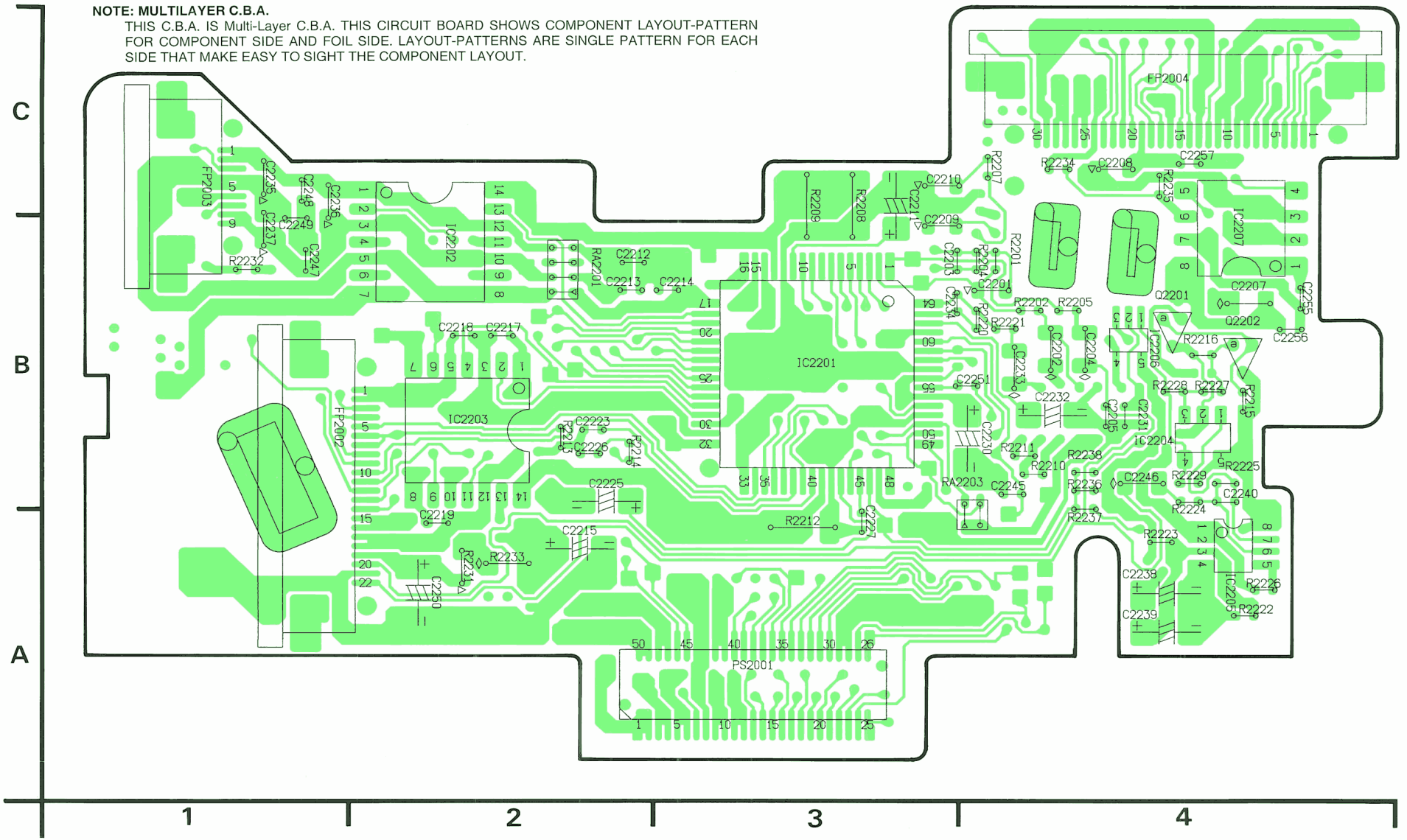
DRIVE C.B.A.

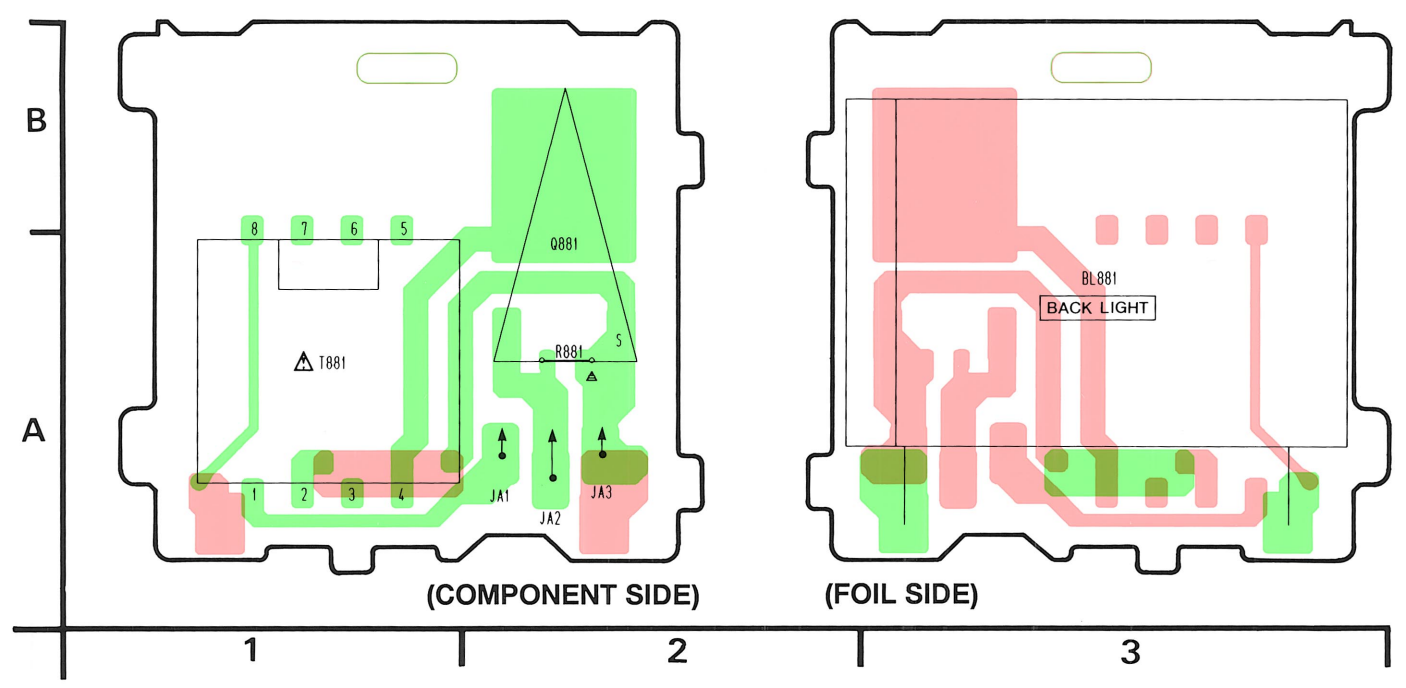
Integrated Circuit		Transistor		Capacitor		C2212	B-2	C2230	B-4	C2245	B-4	Resistor		R2213	B-2	R2227	B-4	Resistor Array	
IC2201	B-3	Q2201	B-4	C2201	B-4	C2213	B-2	C2231	B-4	C2246	B-4	R2201	B-4	R2214	B-2	R2228	B-4	RA2201	B-2
IC2202	B-2	Q2202	B-4	C2202	B-4	C2214	B-3	C2232	B-4	C2247	B-1	R2202	B-4	R2215	B-4	R2229	B-4	RA2203	B-4
IC2203	B-2			C2203	B-3	C2215	A-2	C2233	B-4	C2248	C-1	R2204	B-4	R2216	B-4	R2231	A-2		
IC2204	B-4	Connector		C2204	B-4	C2217	B-2	C2234	B-3	C2249	B-1	R2205	B-4	R2220	B-4	R2232	B-1		
IC2205	A-4	FP2002	B-1	C2205	B-4	C2218	B-2	C2235	C-1	C2250	A-2	R2207	C-4	R2221	B-4	R2233	A-2		
IC2206	B-4	FP2003	C-1	C2207	B-4	C2219	A-2	C2236	C-1	C2251	B-4	R2208	C-3	R2222	A-4	R2234	C-4		
IC2207	B-4	FP2204	C-4	C2208	C-4	C2223	B-2	C2237	B-1	C2255	B-4	R2209	C-3	R2223	A-4	R2235	C-4		
		PS2001	A-3	C2209	B-3	C2225	B-2	C2238	A-4	C2256	B-4	R2210	B-4	R2224	B-4	R2236	B-4		
				C2210	C-3	C2226	B-2	C2239	A-4	C2257	C-4	R2211	B-4	R2225	B-4	R2237	A-4		
				C2211	C-3	C2227	A-3	C2240	B-4			R2212	A-3	R2226	A-4	R2238	B-4		

ADDRESS INFORMATION

NOTE: MULTILAYER C.B.A.

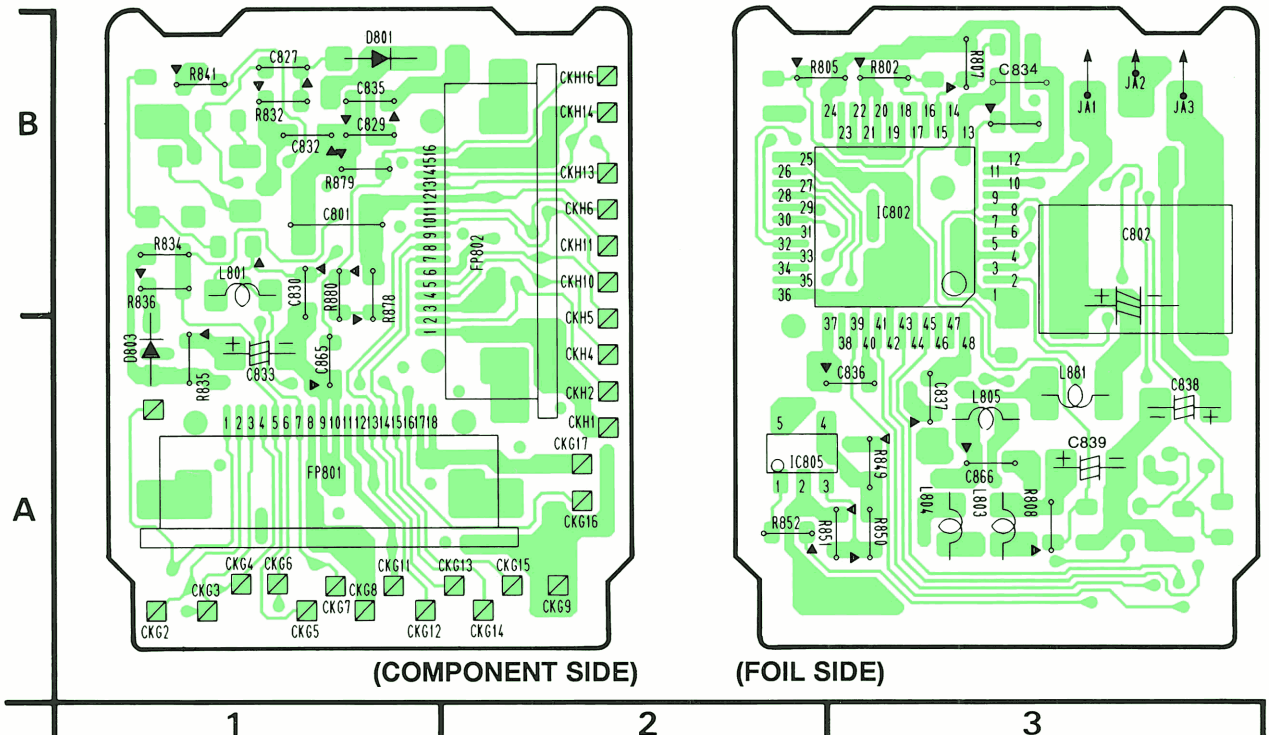
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

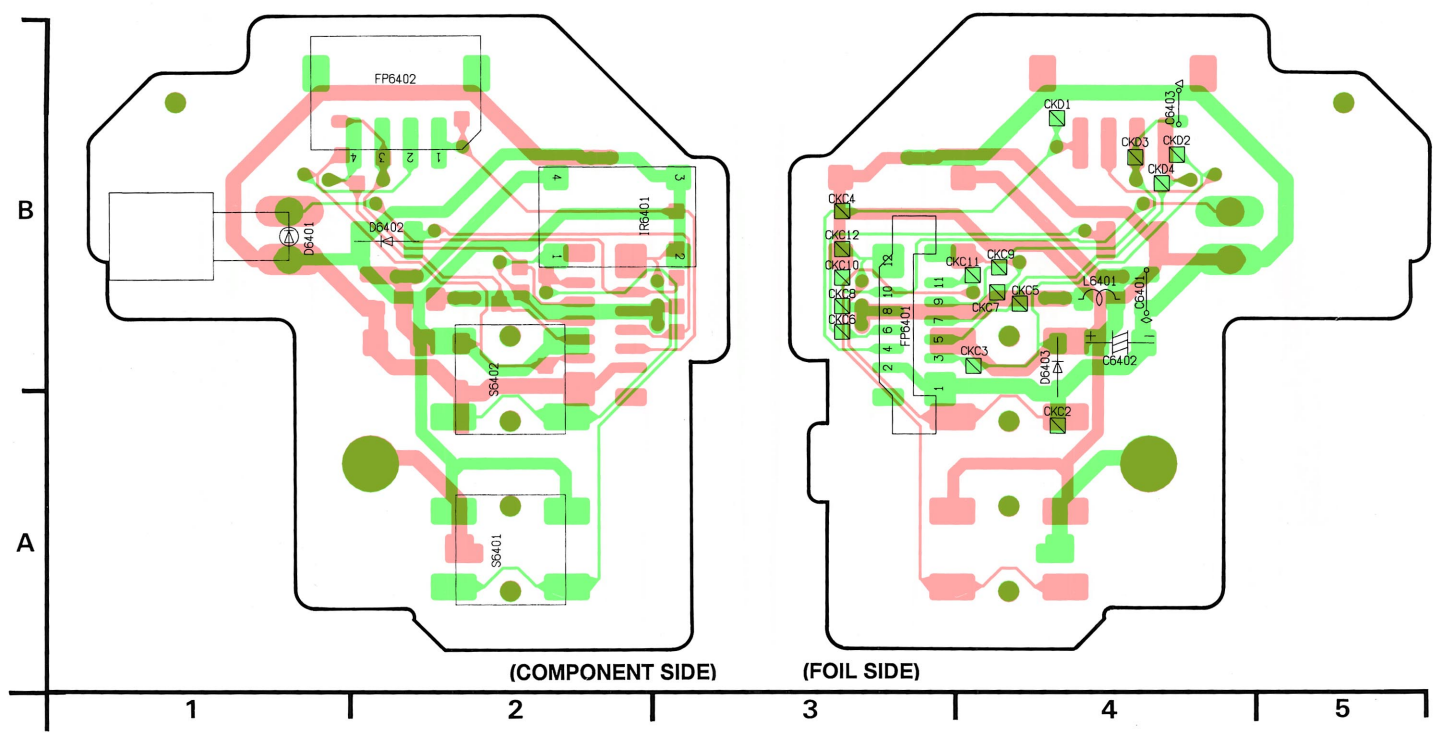



B
A
8
7
6
5
Q881
T881
R881
5
1
2
3
4
JA1
JA2
JA3
BL881
BACK LIGHT
(COMPONENT SIDE)
(FOIL SIDE)
1
2
3

NOTE: MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

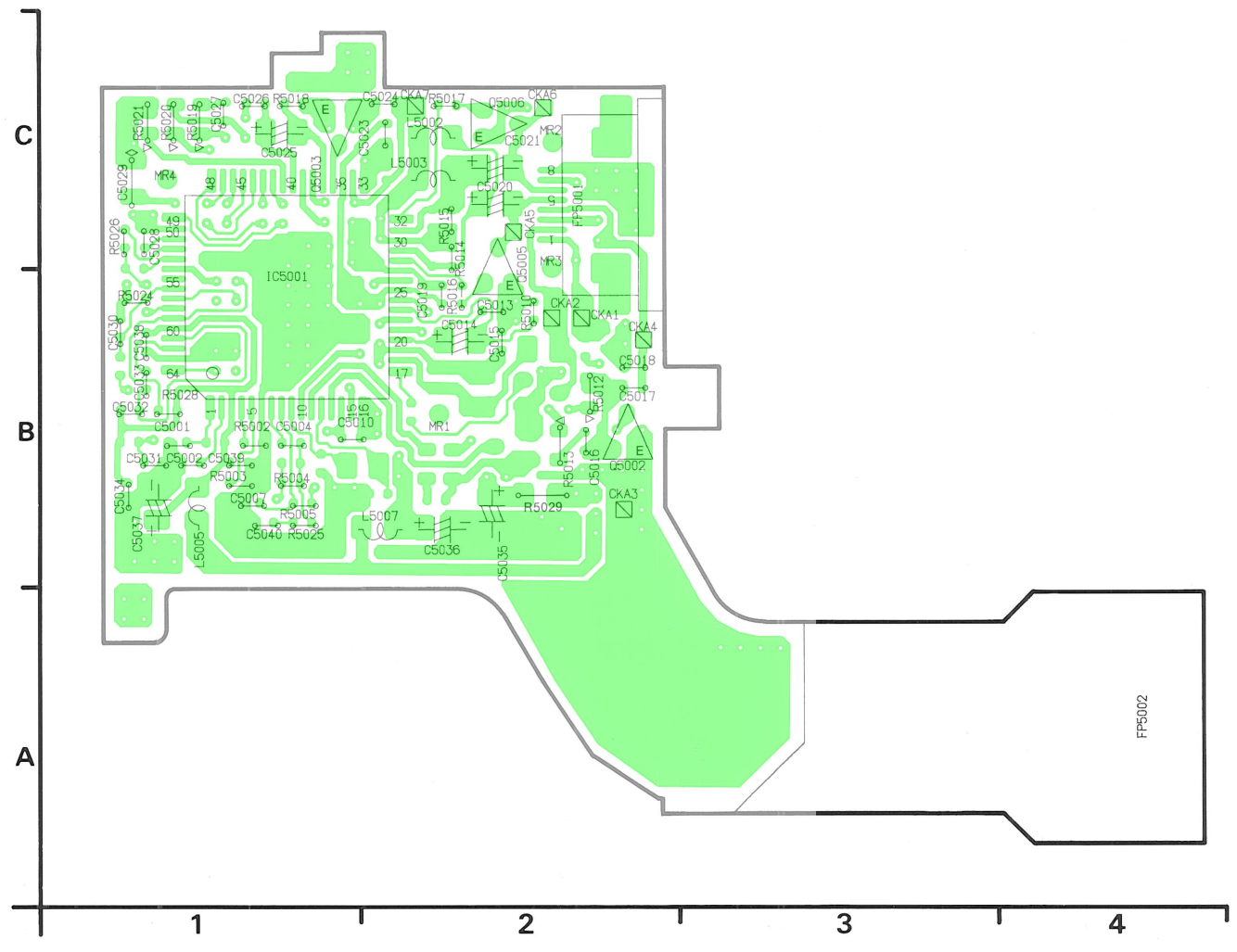


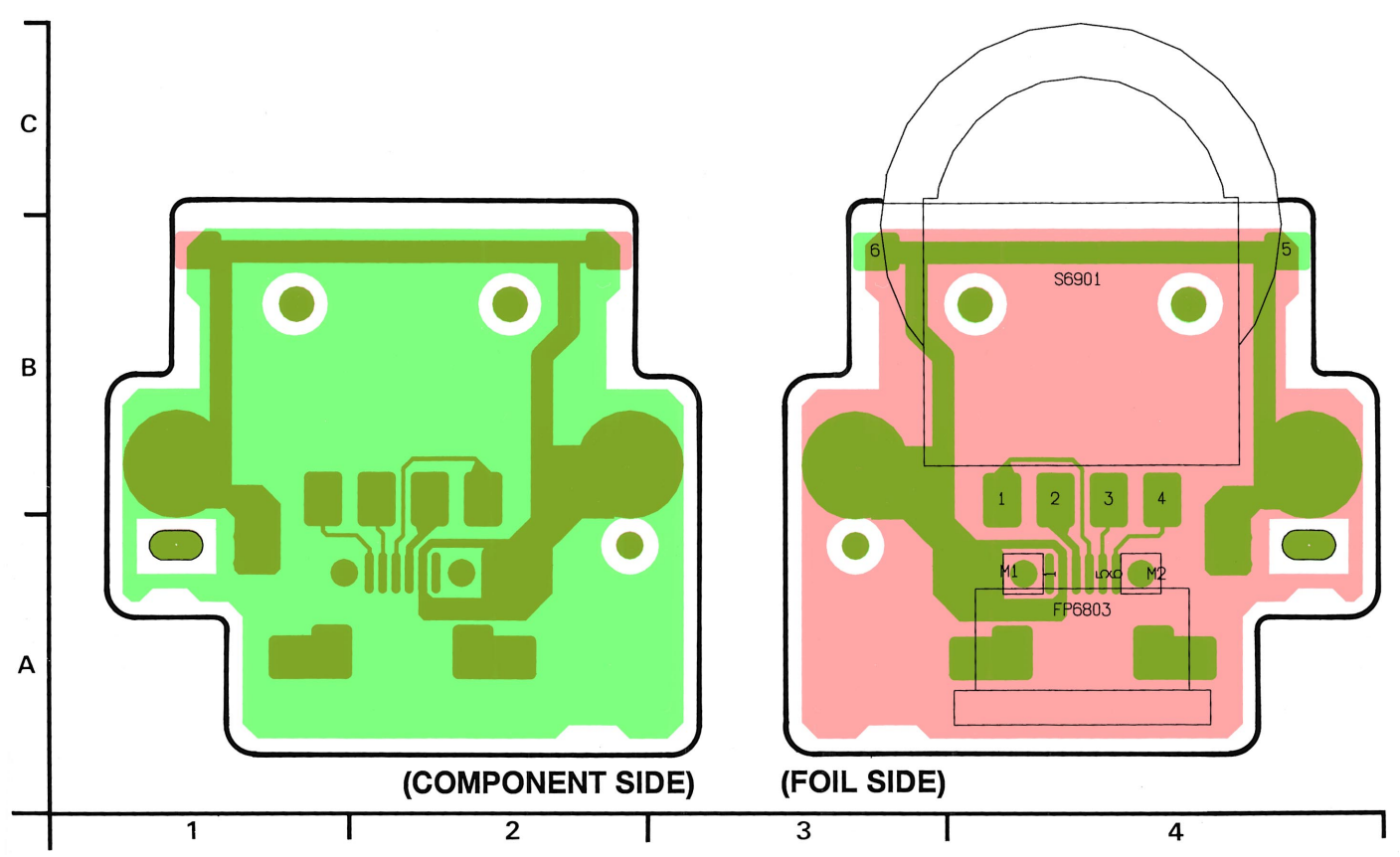

B
A
FP6402
D6401
D6402
IR6401
S6402
S6401
CKD1
D6403
CKD3
CKD2
CKD4
CKC4
CKC12
CKC10
CKC8
CKC6
CKC11
CKC9
CKC7
CKC5
CKC3
CKC2
FP6401
L6401
C6402
C6401
(COMPONENT SIDE)
(FOIL SIDE)
1
2
3
4
5

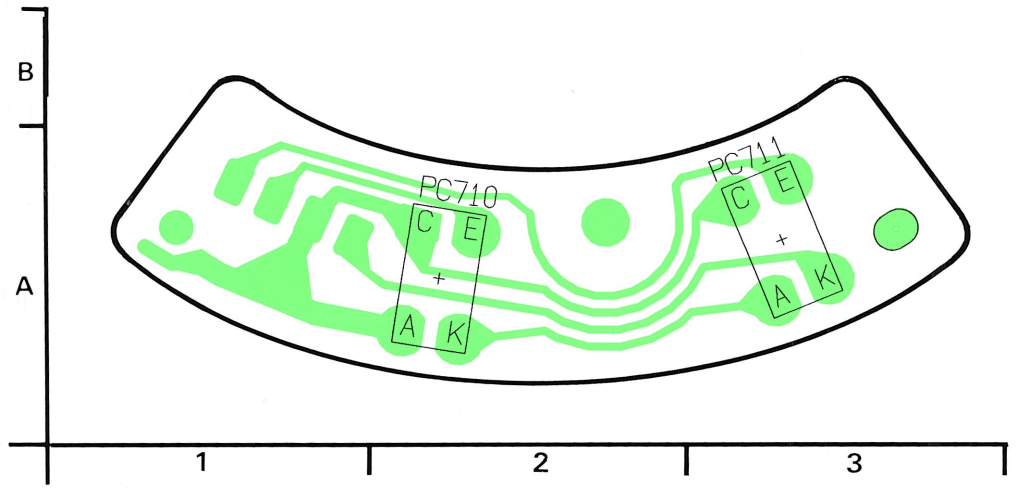
HEAD AMP C.B.A.

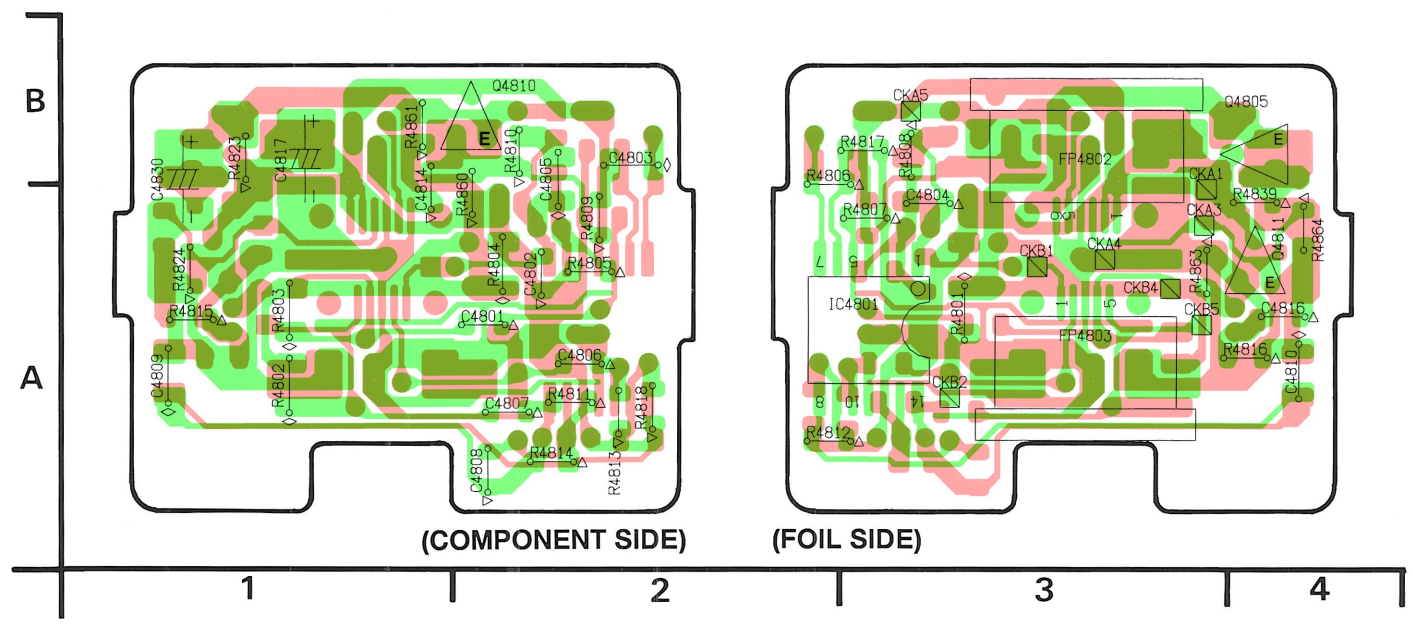
Integrated Circuit	
IC5001	A-2
Transistor	
Q5002	A-3
Q5003	B-2
Q5005	A-3
Q5006	A-3
Connector	
FP5001	B-3
Coil	
L5002	A-3
L5003	A-3
L5005	B-1
L5007	B-1
Capacitor	
C5001	A-1
C5002	A-1
C5004	B-2
C5007	A-2
C5010	B-2
C5013	A-3
C5014	A-3
C5015	A-3
C5016	A-3
C5017	A-3
C5019	A-3
C5020	A-3
C5021	A-3
C5022	B-2
C5023	B-2
C5024	B-2
C5025	B-2
C5026	B-2
C5027	B-2
C5028	A-2
C5031	A-2
C5032	A-2
C5033	A-2
C5034	B-2
C5035	B-2
C5036	B-2
C5037	B-2
C5038	A-2
C5039	B-2
C5040	B-2
Resistor	
R5002	A-1
R5003	A-1
R5004	B-2
R5005	A-2
R5010	A-2
R5012	A-3
R5013	A-3
R5014	A-3
R5015	B-2
R5016	A-3
R5017	A-3
R5018	B-2
R5019	B-2
R5020	B-2
R5021	B-2
R5025	B-2
R5028	A-2

ADDRESS INFORMATION



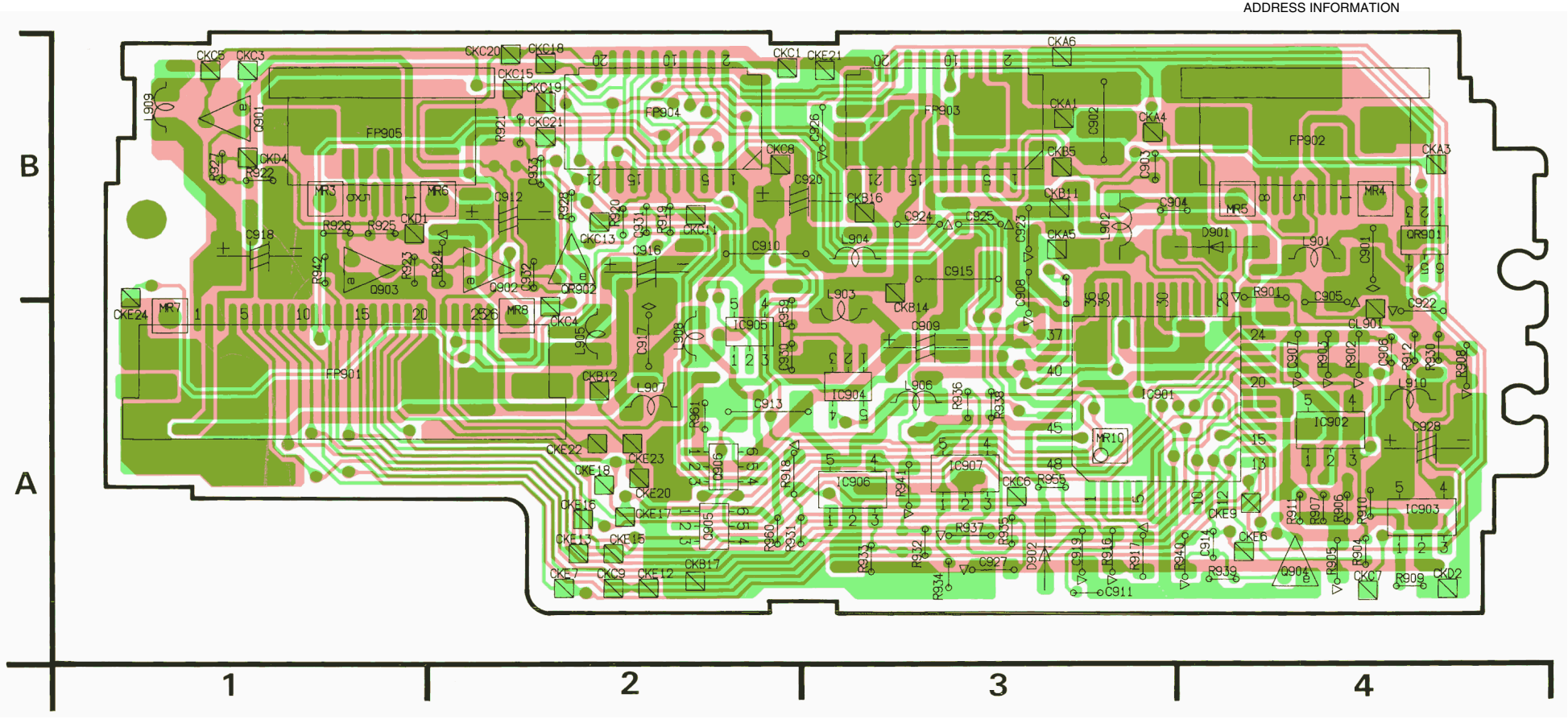

C
B
A
6
5
S6901
1
2
3
4
M1
M2
FP6803
(COMPONENT SIDE)
(FOIL SIDE)
1
2
3
4

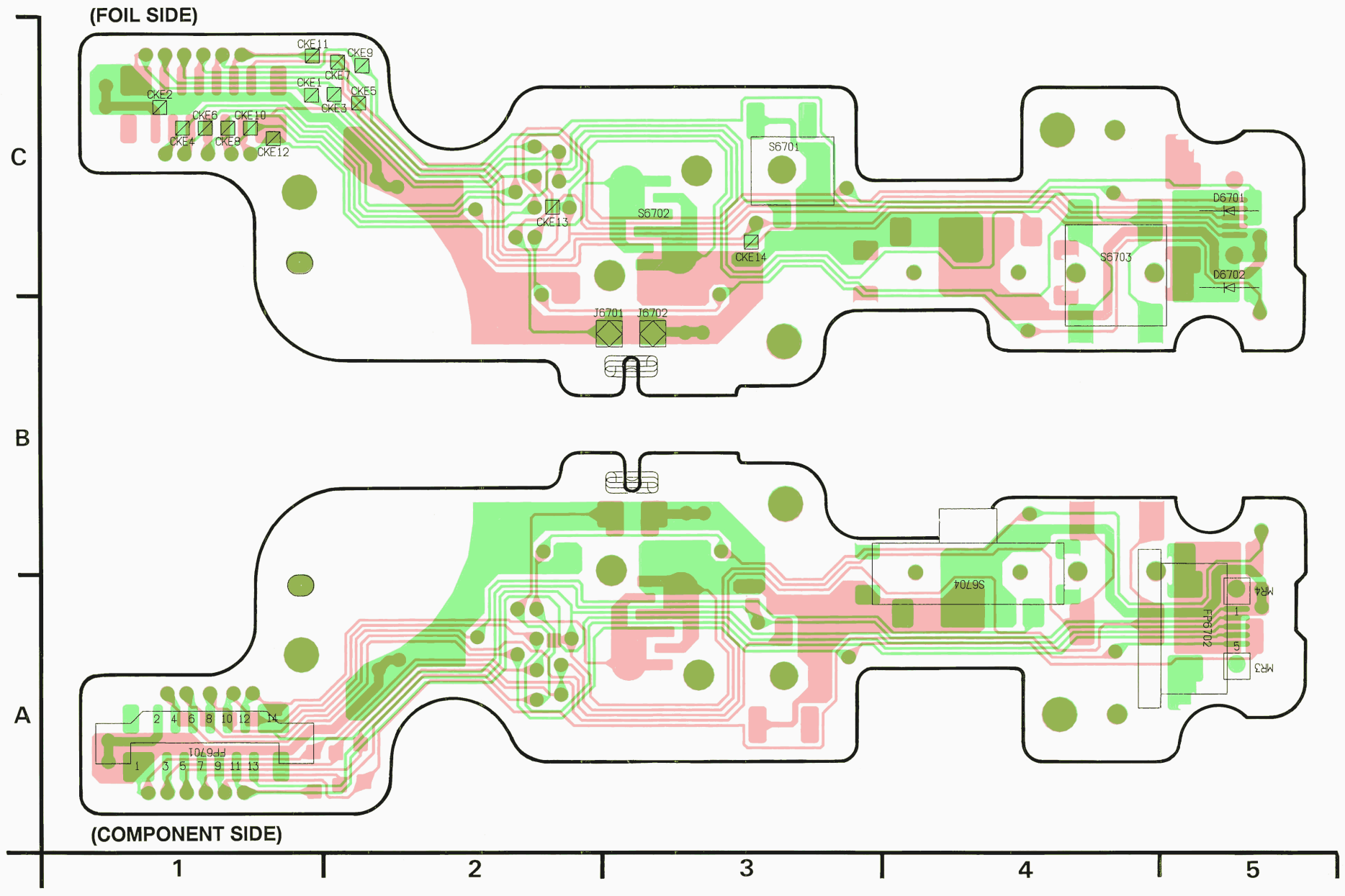

B
A
PC710
C
E
+
A
K
PC711
C
E
+
A
K
1
2
3

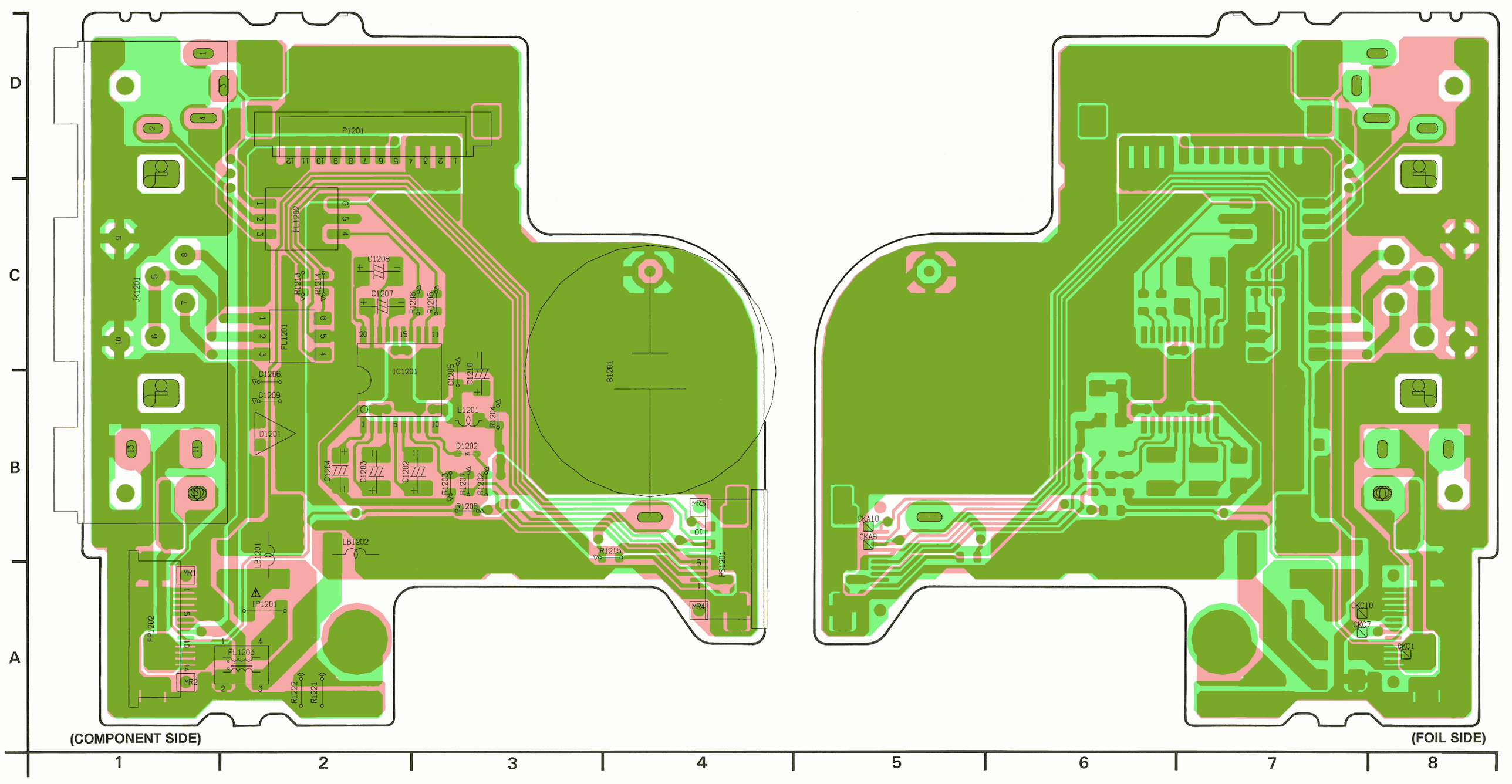

B
A
Q4810
E
R4823
C4830
C4817
R4861
R4814
R4860
R4810
C4805
C4803
R4809
R4824
R4804
R4805
C4802
R4815
R4803
C4801
C4809
R4802
C4806
R4811
C4807
R4818
R4808
R4814
R4813
(COMPONENT SIDE)
CKA5
Q4805
R4817
R4808
FP4802
E
R4806
CKA1
R4839
C4804
R4807
CKA3
R4811
R4864
CKB1
CKA4
IC4801
R4803
CKB4
CKB5
C4816
R4801
FP4803
R4816
C4810
CKB2
R4812
(FOIL SIDE)
1
2
3
4

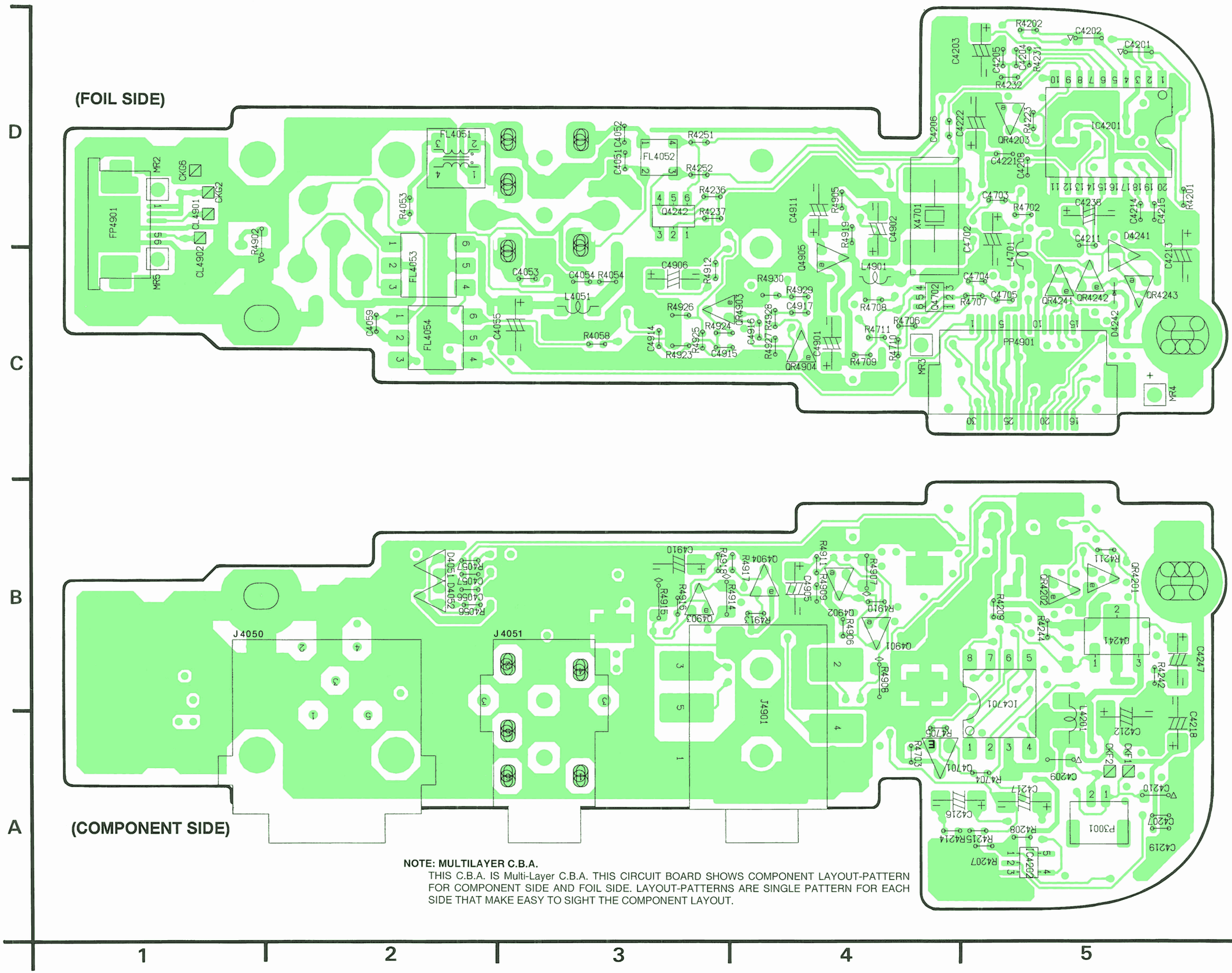
MONITOR C.B.A.			
Integrated Circuit		Q905	A-2
IC901	A-3	Q906	A-2
IC902	A-4	**Transistor & Resistor**	
IC903	A-4	QR901	B-4
IC904	A-3	QR902	B-2
IC905	A-2	**Connector**	
IC906	A-3	FP901	A-1
IC907	A-3	FP902	B-4
Transistor		FP903	B-3
Q901	B-1	FP904	B-2
Q902	B-2	FP905	B-1
Q903	B-1		
Q904	A-4		

ADDRESS INFORMATION




(FOIL SIDE)
CKE11
CKE9
CKE7
CKE1
CKE5
CKE3
CKE2
CKE6
CKE10
CKE4
CKE8
CKE12
CKE13
S6702
S6701
CKE14
S6703
D6701
D6702
J6701
J6702
S6704
MR4
MR3
FP6702
PP6701
2 4 6 8 10 12 14
1 3 5 7 9 11 13
(COMPONENT SIDE)
C
B
A
1
2
3
4
5


D
C
B
A
1
2
3
4
5
6
7
8
P1201
JK1201
FL1202
FL1201
FL1203
C1208
C1207
C1206
C1209
C1205
C1210
C1204
C1203
C1202
IC1201
L1201
D1201
D1202
B1201
LB1202
LB1201
IP1201
FP1202
MR1
MR2
MR3
MR4
PS1201
R1213
R1214
R1206
R1205
R1204
R1203
R1202
R1201
R1215
R1222
R1221
CKA10
CKA8
CKC10
CKC7
CKC1
(COMPONENT SIDE)
(FOIL SIDE)



NOTE: MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SPEAKER AMP C.B.A.

Integrated Circuit	
IC4201	D-5
IC4202	A-5
IC4701	B-5

Transistor	
Q4241	B-5
Q4242	D-3
Q4701	A-4
Q4702	C-4
Q4901	B-4
Q4902	B-4
Q4903	B-3
Q4904	B-4
Q4905	C-4

Transistor & Resistor	
QR4201	B-5
QR4202	B-5
QR4203	D-5
QR4241	C-5
QR4242	C-5
QR4243	C-5
QR4903	C-4
QR4904	C-4

Test Point	
CL4901	D-1
CL4902	C-1

Diode	
D4051	B-2
D4052	B-2
D4241	D-5
D4242	C-5

Filter	
FL4051	D-2
FL4052	D-3
FL4053	C-2
FL4054	C-2

Connector	
FP4901	D-1
P3001	A-5
PP4901	C-5

Jack	
J4050	A-2
J4051	A-3
J4901	A-4

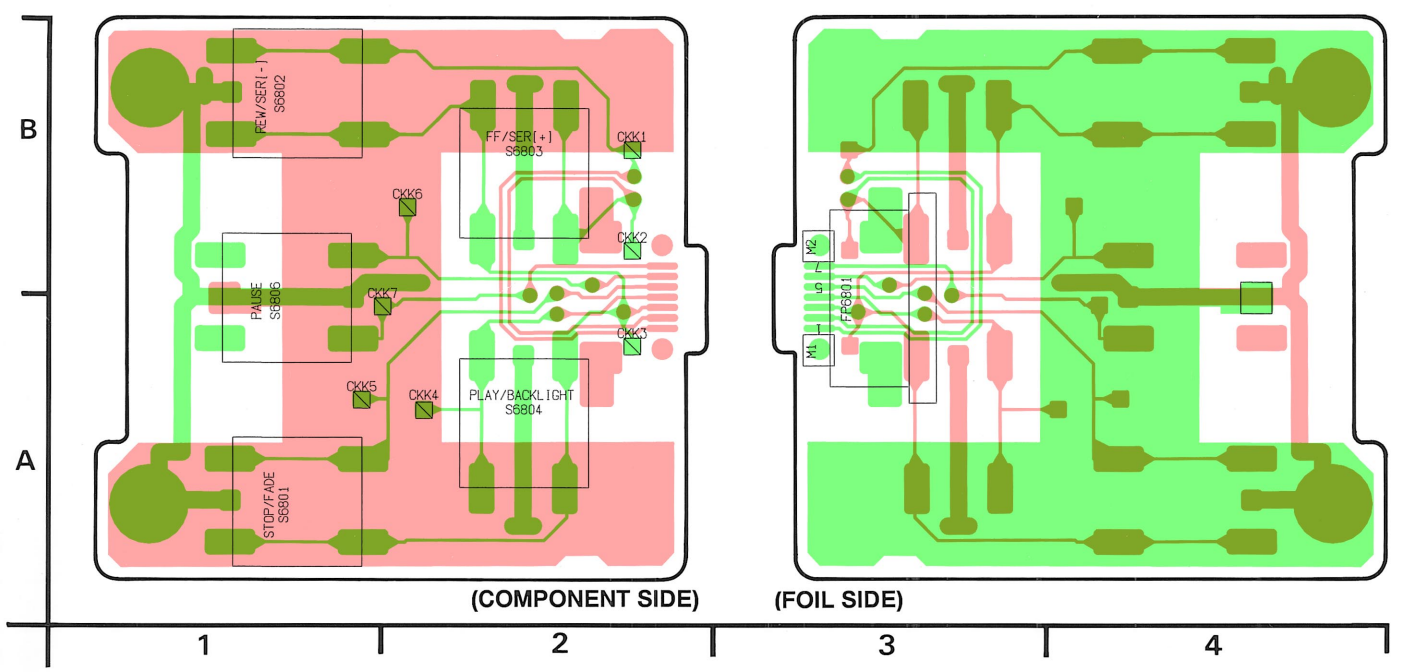
Coil	
L4051	C-3
L4201	A-5
L4701	C-5
L4901	C-4

Crystal Oscillator	
X4701	D-4

Capacitor	
C4051	D-3
C4052	D-3
C4053	C-3
C4054	C-3
C4055	C-3
C4056	B-2
C4057	B-2
C4059	C-2
C4201	D-5
C4202	D-5
C4203	D-4
C4204	D-5
C4205	D-5
C4206	D-4
C4207	A-5
C4208	D-5
C4209	A-5
C4210	A-5
C4211	D-5
C4212	A-5
C4213	C-5
C4214	D-5
C4215	D-5
C4216	A-5
C4217	A-5
C4218	A-5
C4219	A-5
C4221	D-5
C4222	D-5
C4238	D-5
C4247	B-5
C4702	D-5
C4703	D-5
C4704	C-5
C4705	C-5
C4901	C-4
C4902	D-4
C4905	B-4
C4906	C-4
C4910	B-3
C4911	D-4
C4914	C-4
C4915	C-3
C4916	C-4
C4917	C-4

Resistor	
R4053	D-2
R4054	C-3
R4056	B-2
R4057	B-2
R4058	C-3
R4201	D-5
R4202	D-5
R4207	A-5
R4208	A-5
R4209	B-5
R4211	B-5
R4214	A-4
R4215	A-5
R4223	D-5
R4231	D-5
R4232	D-5
R4236	D-3
R4237	D-3
R4242	B-5
R4244	B-5
R4251	D-3
R4252	D-3
R4702	D-5
R4703	A-4
R4704	A-5
R4705	A-4
R4706	C-4
R4707	C-5
R4708	C-4
R4709	C-4
R4710	C-4
R4711	C-4
R4902	D-1
R4905	D-4
R4906	B-4
R4907	B-4
R4908	B-4
R4909	B-4
R4910	B-4
R4911	B-4
R4912	C-3
R4913	B-4
R4914	B-3
R4915	B-3
R4916	B-3
R4917	B-4
R4918	B-3
R4919	D-4
R4923	C-3
R4924	C-3
R4925	C-3
R4926	C-3
R4927	C-4
R4928	C-4
R4929	C-4
R4930	C-4

ADDRESS INFORMATION


B
A
REW/SER[-]
S6802
FF/SER[+]
S6803
CKK1
CKK6
CKK2
PAUSE
S6806
CKK7
CKK3
CKK5
CKK4
PLAY/BACKLIGHT
S6804
STOP/FADE
S6801
M2
M1
FP6801
(COMPONENT SIDE)
(FOIL SIDE)
1
2
3
4

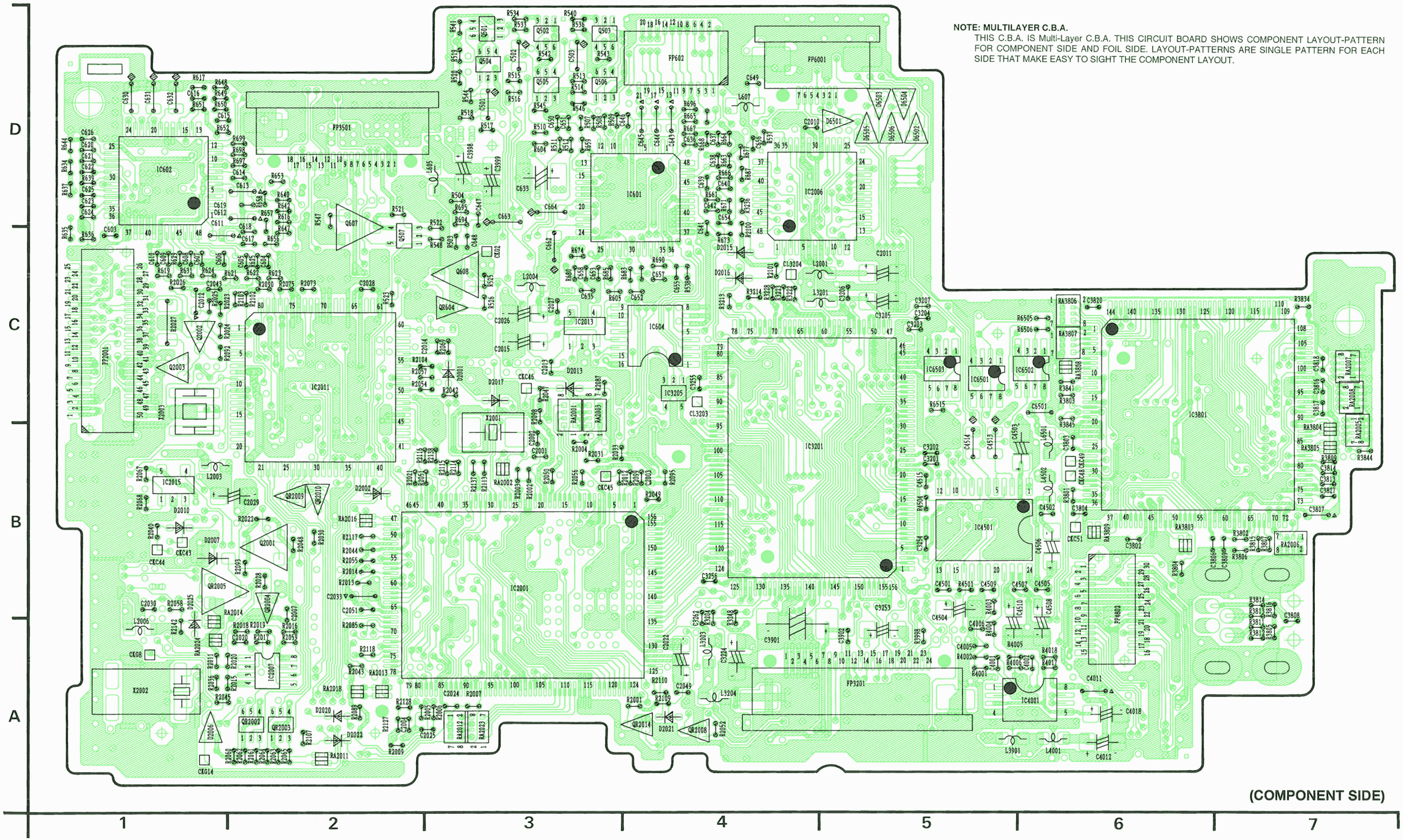
VTR MAIN C.B.A. (2)

R2081	C-4	F	R2097	C-4	F	R2110	A-4	C	R2127	A-2	C	R2140	A-5	F	R3012	B-6	F	R3027	B-6	F	R3041	D-5	F	R3055	C-3	F	R3090	D-5	F	R3208	B-4	F	R3220	B-4	F	R3231	B-3	F	R3242	B-3	F	R3801	B-6	C	R3814	B-7	C
R2082	C-4	F	R2098	C-3	C	R2113	B-3	C	R2128	A-2	C	R2142	A-1	C	R3013	B-6	F	R3028	B-6	F	R3042	D-4	F	R3056	C-3	F	R3091	D-5	F	R3209	B-4	F	R3221	B-4	F	R3232	B-3	F	R3243	B-3	F	R3802	B-7	C	R3815	B-7	C
R2083	C-4	F	R2099	B-4	C	R2114	B-3	C	R2129	B-7	F	R2143	B-6	F	R3014	D-5	F	R3030	C-5	F	R3044	D-6	F	R3057	A-2	F	R3094	B-6	F	R3210	B-4	F	R3222	C-4	C	R3233	A-4	F	R3244	B-3	F	R3803	C-6	C	R3816	B-7	C
R2085	A-2	C	R2100	C-4	C	R2115	B-3	C	R2130	C-4	F	R2199	A-5	F	R3016	B-6	F	R3031	C-5	F	R3046	D-6	F	R3058	A-2	F	R3094	C-6	F	R3211	B-4	F	R3223	C-4	C	R3234	B-4	F	R3245	A-3	F	R3804	B-6	C	R3834	C-7	C
R2087	C-3	C	R2101	C-4	C	R2116	B-3	C	R2133	B-5	F	R3001	D-4	F	R3017	B-2	F	R3032	C-5	F	R3048	C-6	F	R3075	B-5	F	R3097	B-2	F	R3212	B-3	F	R3224	A-3	F	R3235	B-4	F	R3247	B-3	F	R3805	A-7	C	R3841	C-6	C
R2088	B-6	F	R2102	C-2	C	R2117	B-2	C	R2134	B-5	F	R3004	D-4	F	R3018	B-2	F	R3033	C-5	F	R3049	C-6	F	R3076	B-6	F	R3099	D-5	F	R3213	C-4	C	R3225	B-3	F	R3236	D-7	C	R3248	B-4	C	R3806	B-7	C	R3842	B-1	F
R2089	A-2	C	R2103	C-2	C	R2118	A-2	C	R2135	C-1	F	R3005	A-2	F	R3019	A-2	F	R3034	C-5	F	R3050	C-6	F	R3078	B-5	F	R3203	A-3	F	R3214	C-4	C	R3226	A-3	F	R3237	B-3	F	R3249	C-3	F	R3807	B-7	C	R3844	B-7	C
R2090	C-2	C	R2104	C-2	C	R2123	B-6	F	R2136	C-1	F	R3006	B-5	F	R3020	C-5	F	R3036	B-2	F	R3051	C-6	F	R3079	B-5	F	R3204	B-4	C	R3215	B-4	F	R3227	B-4	F	R3238	B-4	F	R3251	C-3	F	R3809	B-7	C	R3845	C-6	C
R2092	C-1	C	R2107	A-2	C	R2124	B-6	F	R2137	B-3	C	R3009	D-5	F	R3022	B-5	F	R3037	B-5	F	R3052	B-5	F	R3083	A-2	F	R3205	A-3	F	R3217	C-3	F	R3228	C-4	C	R3239	B-4	F	R3252	C-3	F	R3811	A-7	C	R3998	A-5	C
R2093	B-2	C	R2108	D-5	F	R2125	B-6	F	R2138	B-3	C	R3010	C-6	F	R3023	B-5	F	R3038	D-5	F	R3053	C-6	F	R3085	B-2	F	R3206	A-4	F	R3218	C-3	F	R3229	A-6	F	R3240	B-4	F	R3254	B-3	F	R3812	A-7	C	R3999	A-6	F
R2095	B-4	C	R2109	A-4	C	R2126	B-6	F	R2139	A-5	F	R3011	B-6	F	R3024	B-5	F	R3039	D-5	F	R3054	C-6	F	R3089	C-5	F	R3207	A-4	F	R3219	B-3	F	R3230	A-3	F	R3241	B-4	F	R3255	A-3	F	R3813	B-7	C	R4001	A-5	C

ADDRESS INFORMATION **C** ... COMPONENT SIDE **F** ... FOIL SIDE

COMPONENT SIDE

NOTE: MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

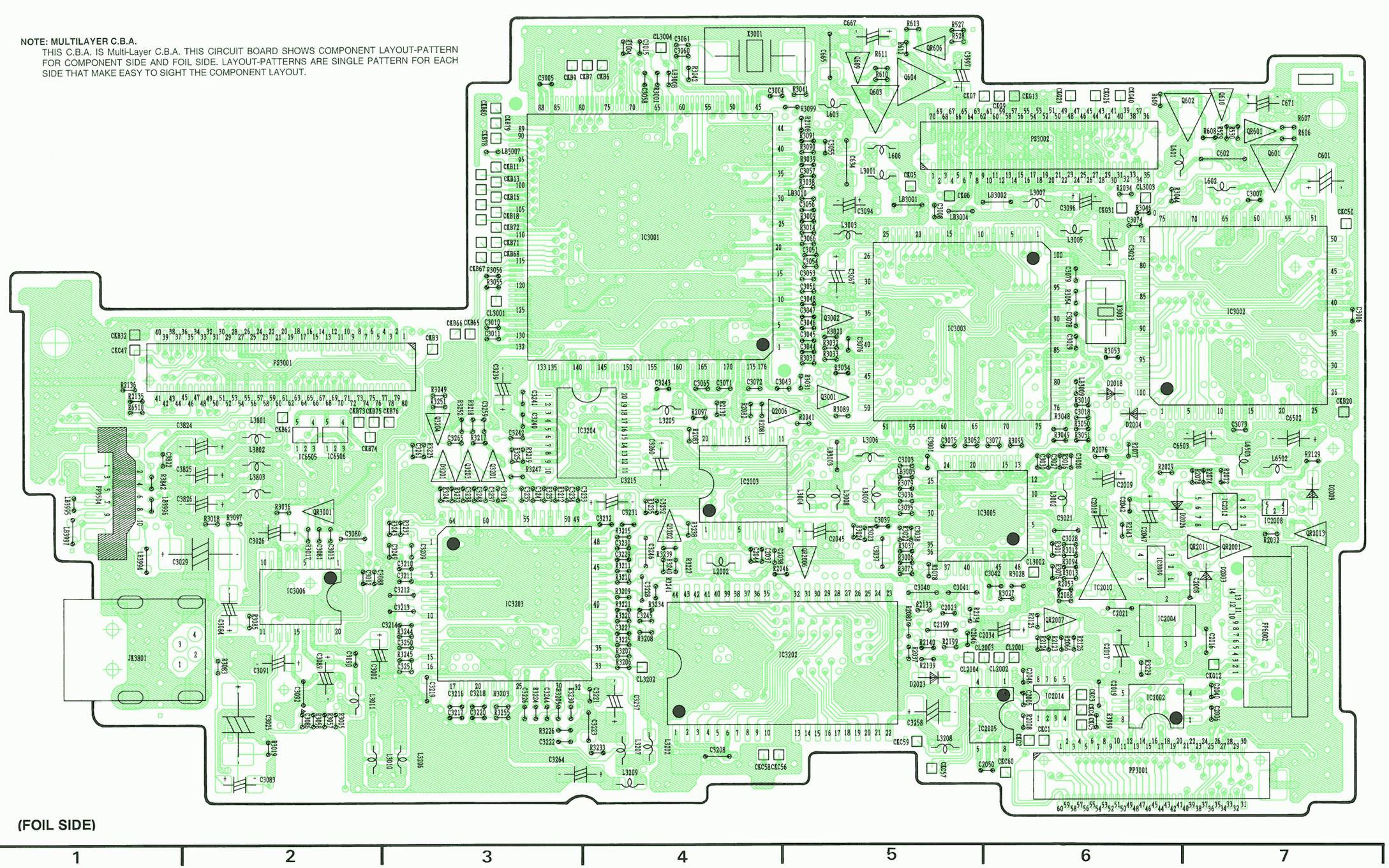


VTR MAIN C.B.A. (3)												
R4002	A-5	C	R6510	C-1	C	RA2011	A-2	C	RA3806	C-6	C
R4003	B-5	C	R6515	C-5	C	RA2012	A-3	C	RA3807	C-6	C
R4004	A-5	C	**Resistor Array**			RA2013	A-2	C	RA3808	C-6	C
R4005	A-5	C				RA2014	A-1	C	RA3809	B-6	C
R4006	A-5	C	RA2001	C-3	C	RA2016	B-2	C			
R4017	A-6	C	RA2002	B-3	C	RA2018	A-2	C			
R4018	A-6	C	RA2003	C-3	C	RA2023	A-3	C			
R4501	B-5	C	RA2005	B-7	C	RA2024	A-1	C			
R4504	B-5	C	RA2006	B-7	C	RA3803	B-6	C			
R6505	C-6	C	RA2007	C-7	C	RA3804	B-7	C			
R6506	C-6	C	RA2008	C-7	C	RA3805	B-7	C			

ADDRESS INFORMATION **C** ... COMPONENT SIDE **F** ... FOIL SIDE

FOIL SIDE

NOTE: MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

TO CAMERA CONNECTION <TO VTR MAIN CONNECTION/ LENS DRIVE/RS232C/MONITOR>
18 NOREG

TO CAMERA CONNECTION <TO RS232C>
17 D

IC1002 TA75S393F (BATT.DET.)

IC1001 BA9734AKV (SWITCHING REGULATOR)

Q1011 FP102 (SWITCHING 5V)

Q1022 2SK2151 (SWITCHING)

Q1021 FP102 (SWITCHING 3V)

QR1001 UN2130X (POWER ON:ON)

QR1002 UN921F (POWER ON Ⓗ:ON)

QR1008 UN9113 (3V:ON)

Q1004 2SB970X-R (M 3V:ON)

Q1005 2SB970X-R (M 5V:ON)

QR1005 XP1214 (LCD ON Ⓗ:ON)

QR1004 UN9115 (SWITCHING)

IC1003 NJM78L12UA (REG 12V)

Q1031 FP102 (SWITCHING 3V)

Q1042 2SK2151 (SWITCHING)

Q1041 FP102 (SWITCHING 2V)

Q1051 2SA1731 (SWITCHING)

Q1052 2SB970X (CAM 15V:ON)

Q1055 2SD2216 (CCD ON Ⓗ:ON)

Q1002 XP4401 (REG M 13.5V)

Q1003 XP1501 (REG M 13.5V)

QR1006 UN9213 (SWITCHING)

Q1006 2SD2216 (REG CAM -8V)

Q1007 XP1401 (REG CAM -8V)

Q1061 FP102 (CAP VM)

Q1062 FP102 (CYL VM)

QR1007 UN9113 (SWITCHING)

Q1053 2SD2216 (REG M -15V)

Q1054 XP1401 (REG M -15V)

Q1101 2SB1462 (BUFFER)

QR1101 UN9214 (ERROR VOLTAGE DET.)

TO CAMERA CONNECTION <TO VTR MAIN CONNECTION/ PROCESS>

INN BAT Ⓗ	1
BATT Ⓗ	2
REG 3V	15
CAP SW	10
CAP VM	11
P ON Ⓗ	3
CCD ON Ⓗ	8
V REF	9
CYL VM	13
CYL SW	12
TRI WAVE	6
DIF 3V	7
REG 5V	16
REG 2V	14
LCD 12V	5
LCD ON Ⓗ	4

TO CAMERA CONNECTION <TO MONITOR>

M 3V	21
M 5V	20
M -15V	22
M 13.5V	19

TO CAMERA CONNECTION <TO SENSOR>

CAM 15V	24
CAM -8V	23

TO CAMERA CONNECTION

D GND	25
NOREG GND	26

TO CAMERA CONNECTION
<TO VTR MAIN CONNECTION>
171 EVR SCK (A1)
172 EVR SB1 (A2)
173 EVR SB0 (A3)
175 CAM SCLK (A4)
174 V C DATA (A5)

TO CAMERA CONNECTION
<TO SENSOR/LENS DRIVE)
130 CAM 2.8V

TO CAMERA CONNECTION
<TO CAMERA OPERATION>
111 MF L2 (A6)
124 IR SENS
113 ENC(-) (A7)
112 ENC(+) (A8)
114 ENC SW (A9)
121 MF LED
122 MF VCC
123 MF L1
115 MENU
116 MODE0 (A10)
117 MODE1
118 MODE2
119 MF
120 WB

TO CAMERA CONNECTION
<TO LENS DRIVE>
132 CK
133 CW/CCW
134 RESET M
135 ENABLE
136 ZM CLK
137 ZM DIR
138 ZM EN
139 ZM RST
140 V REF (L) (V REF(L))
141 LED CTL
142 PWM A

TO CAMERA CONNECTION
<TO LENS>
128 Z ENC (Z ENC)
127 ABSF (ABSF)

TO CAMERA CONNECTION
129 D GND

TO CAMERA CONNECTION
<TO CONTROL/VTR MAIN CONNECTION>
170 CAM T

TO CAMERA CONNECTION
<TO LENS DRIVE/VIDEO1>
110 FNO

TO CAMERA CONNECTION
<TO LENS DRIVE/SENSOR>
131 CAM 5V

TO CAMERA CONNECTION
<TO SENSOR>
143 PWM B
144 CG DATA
145 AD IN
146 AGC DET (A22)
147 CG CS (A23)
148 CG CK
149 V REF 2.7
150 V REF 1.0
151 DAC S
152 CAM VD
153 CAM HD
154 FCK (N3)
155 FCK2
156 V CTL
157 AD CLK (N1)
158 CAM CP2 (N2)

TO CAMERA CONNECTION
<TO CONTROL>
217 EVR AD IN
165 CAM RESET
163 C V DATA
166 CAM D3 OFF
164 VTR T
160 RTN FLD
161 CAM RTN
162 CAM 0

(A11) (A12) (A6) A13

CAM 2.8V
REG 3V

R305 680
R334 10K
R335 2200
LB304 VLP0175
Q303 2SB970X-R (CAM 2.8V:ON)
L309 10µ
IC310 TC7S14FUTL
C337 0.01
D301 MA8056
R313 820
L310 10µ
C327 0.1
C328 6V10
QR301 UN9211 (INV.)
R321 8200
R338 1K
R339 33K
QR303 XP1213 (INV.)
R351 33K
R352 1K
L306 10µ
L305 10µ
R311 1200
C322 0.01
R306 220K
R307 220K
C335 1000P
R369 10K
R356 10K
R343 47K
R337 4700
R336 4700
C320 6V10
C319 6V10
C334 1000P
R372 4700
R371 4700
R324 47K
R310 10K
IC308 AK6480AF (EEP ROM)
R348 4700
R347 4700
R346 1500
CL311
CL315
L312 10µ
C323 0.1
X301 VSX0947 (16MHz)
R361 1K
C321 0.1
R368 47K
R360 4700
L311 10µ
C332 0.1
R325 100
QR302 UN9211 (MF LED CTL (B):ON)
R317 2.2M
D306 MA132WA
R314 150K
R315 56K
R316 22K
C306 1000P
C307 1
C308 0.1
IC305 TA75S393F
R326 27K
R332 10M
R320 11K
Q301 2SD1030 (AMP)
R318 330K
R319 18K
C310 0.47
C311 0.1
R304 0
R302 4700
D333 MA110
IC303 T91CU10F9922 µCOM(AF/DIS/DSP)
R312 1K
C331 22P
D303 RB521S-30
C302 6V10
C301 6V10
L301 10µ
L302 10µ

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS
SCHMATIC DIAGRAM FOR ORDERING.WHEN YOU
ORDER A PART,PREASE REFERE TO PARTS LIST.

VIDEO SIGNAL PATH Y SIGNAL PATH C SIGNAL PATH

IC306 TC7SH08FU
QR305 XP1212 (AMP)
QR306 XP1212 (AMP)
QR307 XP1212 (AMP)
IC301 AN8133FHQ (A/D CONVERTER)
QR304 UN9213 (INV.)
IC302 F437002EPBWL (CAMERA DSP)
IC304 ZA4035W (FIELD MEMORY)
IC307 TC7SH08FU

REG 3V
DATA
ADDRESS
DIGITAL VIDEO IN
DIGITAL Y IN
DIGITAL C IN
DIGITAL C OUT
DIGITAL Y OUT
FM Y IN
FM C IN
FM Y OUT
FM C OUT
FM C
FM Y

TO CAMERA CONNECTION <TO REAR OPERATION>
V REF (L) 167
ZOOM A/D 168
V REF (H) 169

TO CAMERA CONNECTION <TO POWER/VTR MAIN CONNECTION>
REG 3V 125
REG 2V 126

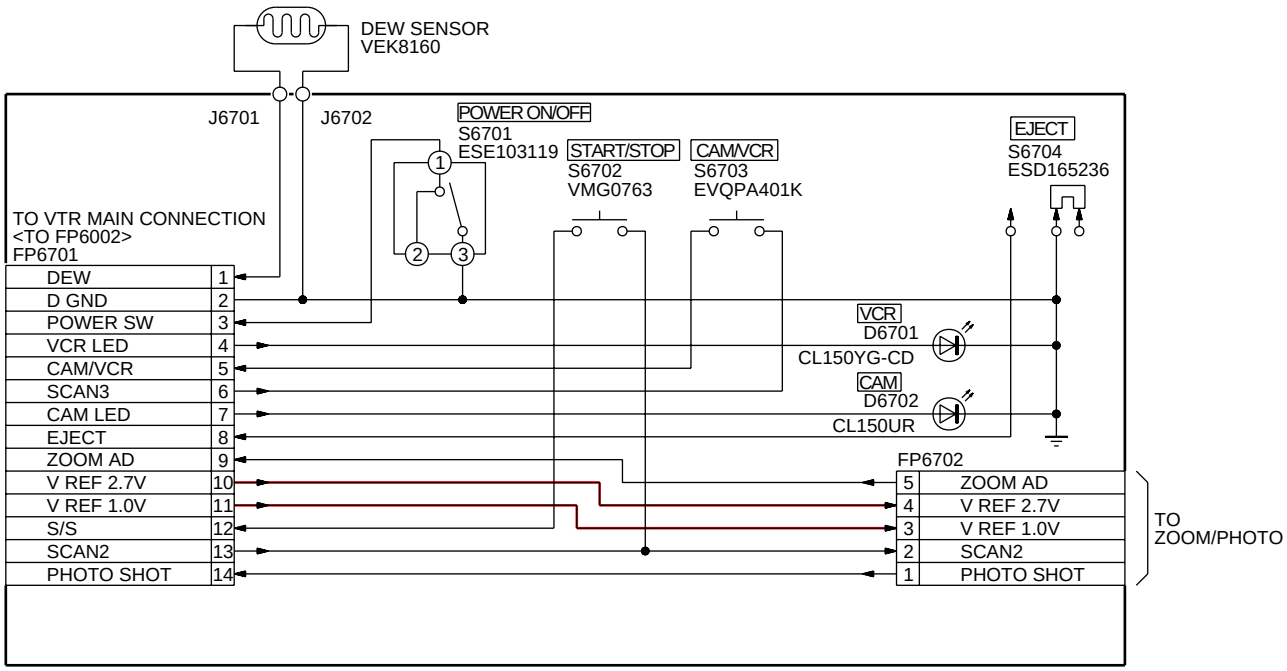
TO CAMERA CONNECTION <TO CONTROL/EVR>
MODI/BST TEST 159

TO CAMERA CONNECTION <TO EVR>
RESET 1 220
CAM TEST 215
E2 DATA 218
VD 216
E2 CLK 219

TO CAMERA CONNECTION <TO VIDEO1>
PB Y0 176
PB Y1 177
PB Y2 178
PB Y3 179
PB Y4 180
PB Y5 181
PB Y6 182
PB Y7 183
PB C0 184
PB C1 185
PB C2 186
PB C3 187
CLK 4.5M 189
PB VS 190
PB HS 191
IN H 192
IN V 193
C SI0 194
C SI1 195
C SI2 196
C SI3 197
C SI4 198
C SI5 199
C SI6 200
C SI7 201
Y SI0 202
Y SI1 203
Y SI2 204
Y SI3 205
Y SI4 206
Y SI5 207
Y SI6 208
Y SI7 209
REF CK 210
CAM TDO 211
TDI CAM 212

TO CAMERA CONNECTION <TO VIDEO1/VIDEO2/DIF/EVR>
TMS 213
TCK 214

11	12	13	14	15	16	17	18	19	20	21	22



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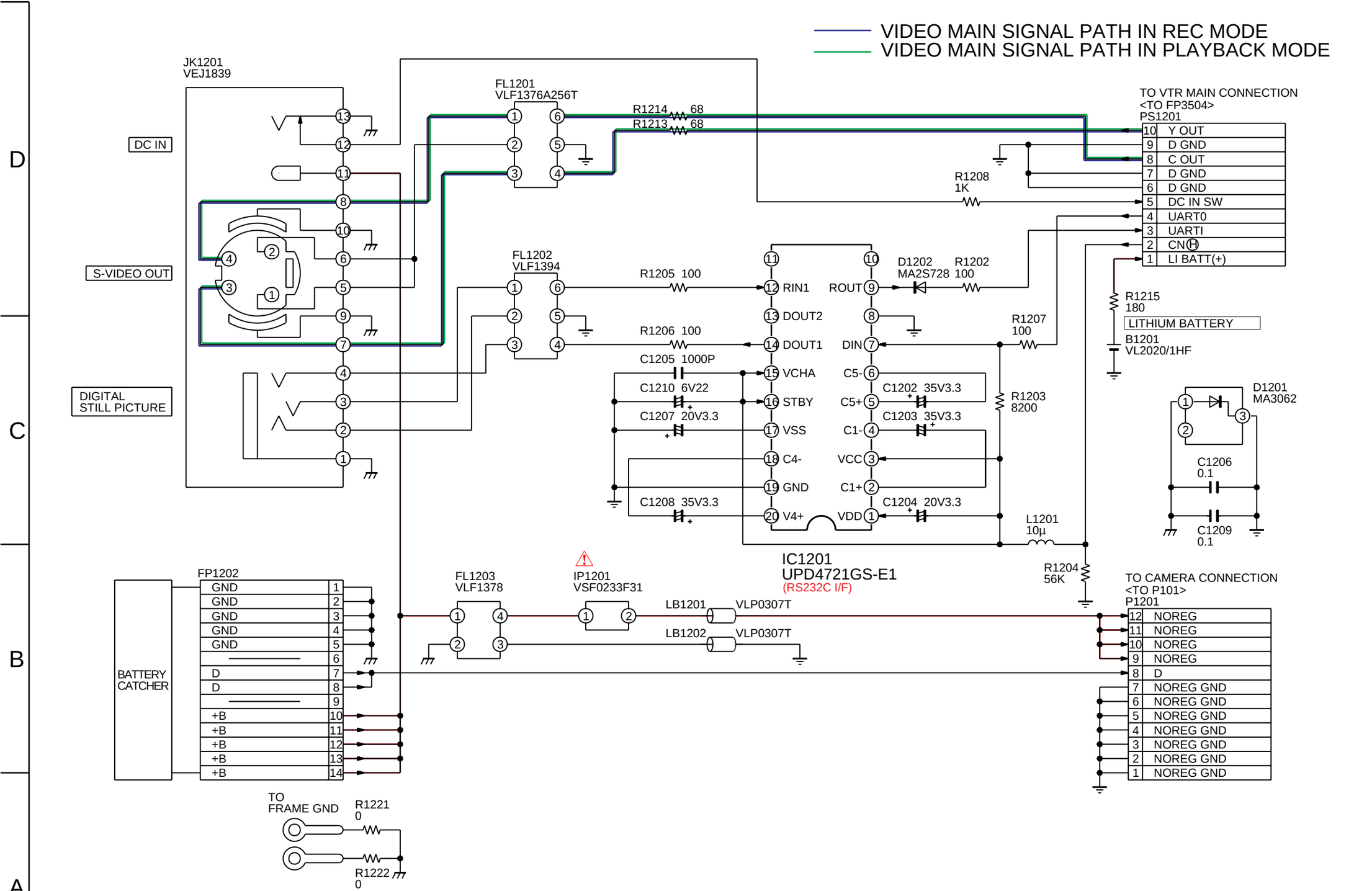
B

A

1 2 3



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

INPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.

VIDEO MAIN SIGNAL PATH

TO CAMERA CONNECTION <TO CCD>
77 OUT
78 15V
79 SUB
80 H1
81 H2
82 R
83 V4
84 V3
85 V2
86 V1
87 -8V

TO CAMERA CONNECTION <TO LENS DRIVE/PROCESS>
70 CAM 5V
71 CAM 2.8V

TO CAMERA CONNECTION <TO POWER>
CAM -8V 72
CAM 15V 73

TO CAMERA CONNECTION
D GND 76

IC201 µPD16510GR (V DRIVE)

IC202 MN5268 (CG/SSG)

IC203 AN2108NFHQ (CDS/AGC/EVR)

IC204 TC7SH04FU

IC205 TC7SHU04FU

Q201 XP4601 (AMP)

FL201 VLF1438

X201 VSX0825 (31.5MHz)

HIGH SPEED PULSE DECODER
CH PULSE DECODER
GATE PULSE GENERATE
V-LATE COUNTER
V-LATE DECODER
COMPOSITE DECODER
V-COUNTER RESET CIRCUIT
V-DRIVE PULSE DECODER
H-LATE COUNTER
H-LATE DECODER
CP2,HD GENERATE
V-HIGH PULSE GENERATE
SERIAL DATA INPUT CIRCUIT
15CH DAC

TO CAMERA CONNECTION <TO PROCESS>
105 AD CLK
100 FCK2
101 V CTL
102 FCK
103 CAM HD
104 CAM VD

TO CAMERA CONNECTION <TO EVR>
AGC OUT 89
CP OB 88

TO CAMERA CONNECTION <TO LENS DRIVE>
HALL GAIN 74
HALL BIAS 75

TO CAMERA CONNECTION <TO PROCESS>
AD IN 90
V REF 1.0 91
V REF 2.7 92
PWM B 94
DACS 95
CAM CP2 96
AGC DET 93
CG CS 97
CG DATA 98
CG CK 99

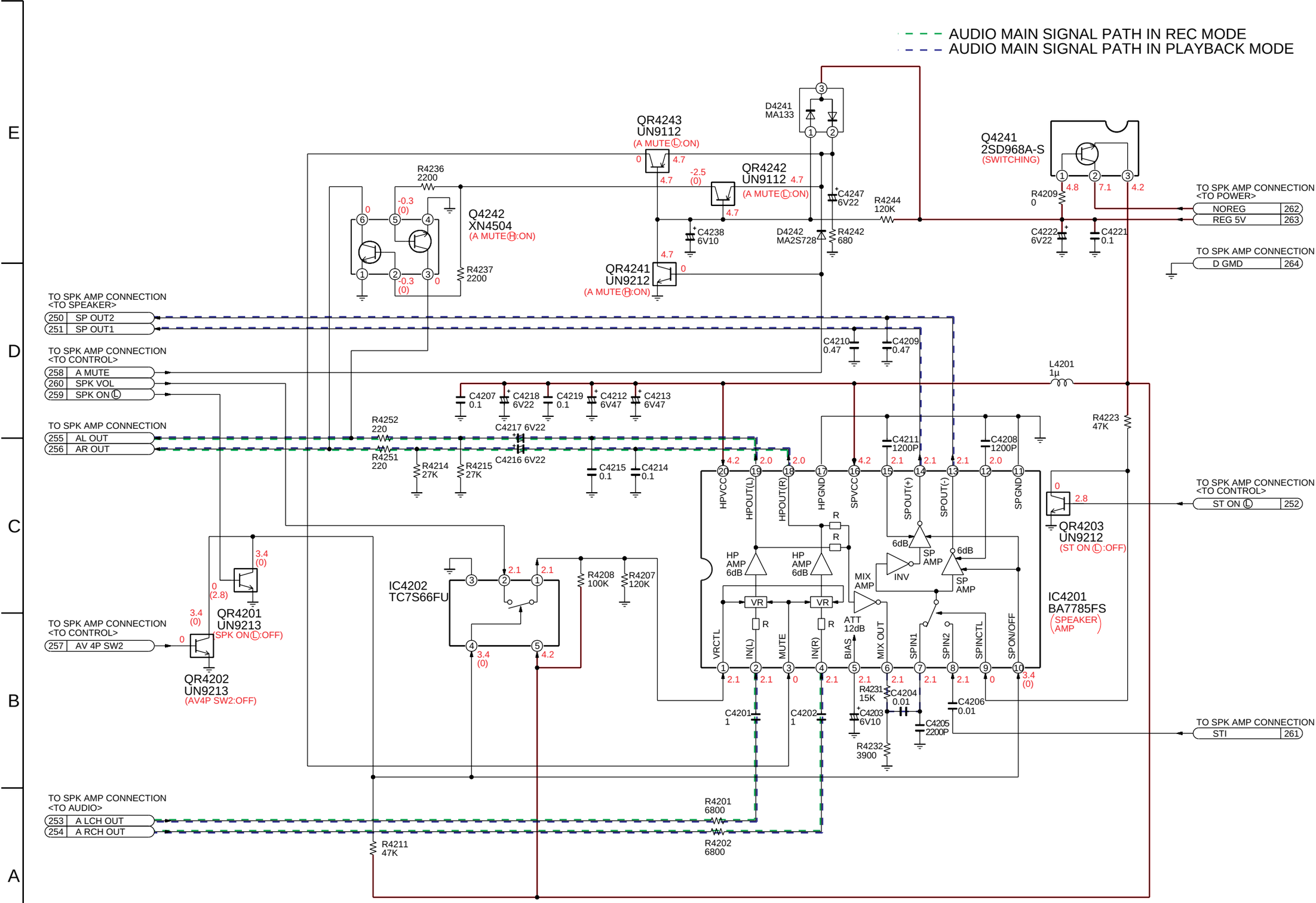
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SPECIFICATIONS

ITEM	SPECIFICATION
POWER	Source: Battery Pack; 7.2 V DC AC Adaptor; 7.9 V DC Consumption: During Camera Recording Using The LCD; 5.6 W During Camera Recording Using The Viewfinder; 4.8 W
RECORDING FORMAT	Digital Video SD Format
TAPE FORMAT	Mini DV Cassette Tape (Tape width 6.35 mm)
TAPE SPEED	SP mode: 18.83 mm/s LP mode: 12.57 mm/s Record/ Playback Time SP mode: 60 min. with DVM60 LP mode: 90 min. with DVM60
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)
	STANDARD ILLUMINATION: 1,400 lux
	MINIMUM REQUIRED ILLUMINATION: 1 Lux
	LENS: 17 : 1 Power Zoom Lens (Optical capability) F1.4 Focal Length: 3.9–66.3 mm Macro (Full Range AF)/Auto Iris Filter Diameter: 43 mm
	IMAGE SENSOR: 1/3 inch CCD Image Sensor
	VIEWFINDER: 0.5 inch Colour Electronic Viewfinder 2.5 inch Colour LCD Monitor
VIDEO	RECORDING FORMAT: Digital Component
	TELEVISION SYSTEM: CCIR; 625 Lines, 50 Fields PAL Colour Signal
	VIDEO OUTPUT LEVEL: 1.0 Vp-p, 75Ω S-VIDEO OUTPUT LEVEL; Y: 1.0 Vp-p, 75Ω C: 0.3 Vp-p, 75Ω

ITEM	SPECIFICATION
AUDIO	RECORDING FORMAT: PCM Digital Recording; 16 bit (48 kHz/2 ch) 12 bit (32 kHz/4 ch)
	MIC IN LEVEL: –70 dBV, 4.7 kΩ OUTPUT LEVEL: 316 mV, 600Ω
DIGITAL STILL PICTURE	Digital Still Picture Output, Control Signal Input/Output (Transfer rate: max. 115 kbps)
DIGITAL INTERFACE	DV Output Terminal (i. LINK, 4 pin))
MICROPHONE	Stereo
SPEAKER	1 round speaker ϕ20 mm
OPERATING TEMPERATURE	0–40˚C
OPERATING HUMIDITY	10–80%
WEIGHT	Approx. 710 g (without Battery Pack)
DIMENSIONS	Approx. 81 (W)× 106 (H)× 205 (D) mm
STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack Unit 1 pc. S-VIDEO Cable 1 pc. Shoulder Belt 1 pc. DC Cable Unit 1 pc. AC Cord 1 pc. AV 4 pin Cable 1 pc. Remote Controller 1 pc. Battery for Remote Controller 1 pc. Lens Cleaner 1 pc. 21 pin Adaptor (NV-DA1 EG/B Only) 1 pc. Head Phone Adaptor 1 pc. Cassette (NV-DA1 EN/ENA Only) 1 pc. Cleaning Cassette (NV-DA1 EN/ENA Only)

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ON THIS DIAGRAM IS RECORD MODE.(SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

SPEAKER
P3001
SP OUT2 2
SP OUT1 1
WIRE
VEE0D95
TO SPEAKER
250 SP OUT2
251 SP OUT1
(D-1)

SPEAKER AMP
(C-1) AL OUT 255
AR OUT 256
TO CONTROL
(B-1) AV 4P SW2 257
TO CONTROL(PP4901)
(D-1) A MUTE 258
SPK ON(L) 259
SPK VOL 260
A4
A5
A6
TO CONTROL(PP4901)
A1
252 ST ON (L)
(C-7)
(B-7) STI 261
TO AUDIO(PP4901)
A2
A3
253 A RCH OUT
254 A LCH OUT
(B-1)
TO POWER
(E-7) NOREG 262
(E-7) REG 5V 263
(E-7) D GND 264

EDIT (E) J4050 VJJ0567
FL4053 VLF1376A505T
FL4054 VLF1376A505T
C4059 0.1
C4055 6V47
L4051 41µ
D4052 MA132WK
D4051 MA132WK
R4056 100
R4058 1K
R4057 100
C4056 220P
C4057 220P
R4053 68
R4054 22K
J4051 VJJ0612
AV OUT
FL4051 VLF1445
C4051 4700P
C4052 4700P
FL4052 VLF1341B107T
C4053 0.1
C4054 0.1

TO VTR MAIN CONNECTION
<TO PP4802>
PP4901

1	S DATA
2	CR POWER
3	D GND
4	V OUT
5	V 3V
6	REG 5V
7	NOREG
8	D GND
9	A AD IN L
10	D GND
11	A LCH OUT
12	A MUTE
13	S TITLE DI
14	S TITLE RST
15	S TITLE CI
16	WIND SW(H)
17	ST ON (L)
18	SPK ON (L)
19	SPK VOL
20	A RCH OUT
21	D GND
22	A AD IN R
23	D GND
24	NOREG
25	REG 5V
26	V 3V
27	D GND
28	AV 4P SW2
29	REG 5V
30	S CLK

(A-LINE)
(A-LINE)
A1
A3
A4
A5
A6
A2

MIC
J4901
VJJ0414
TO FRAME GND
R4902 0
TO MIC UNIT
<TO FP4802>
FP4901

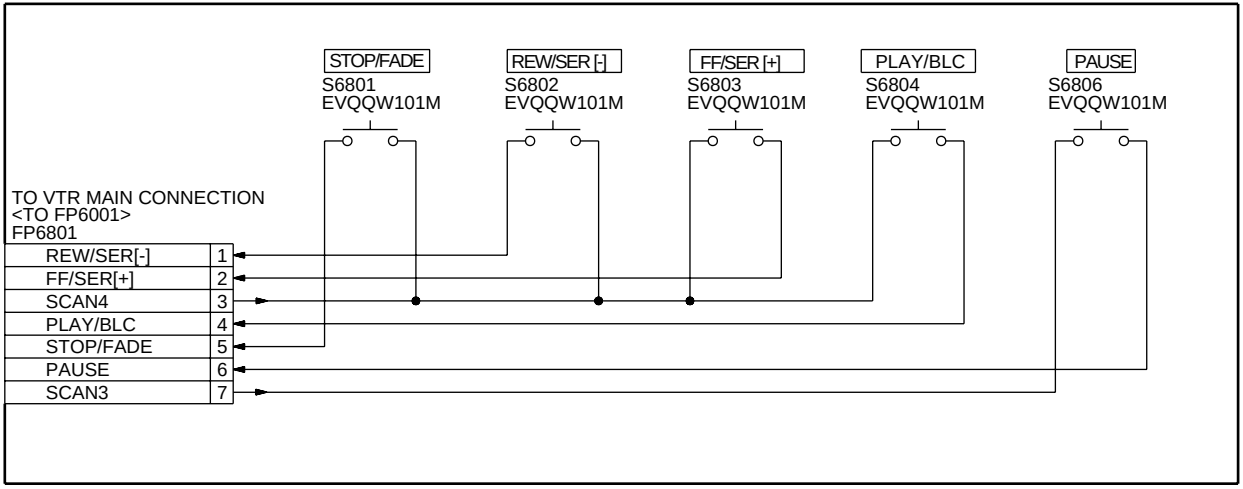
REG A5V	1
REG A5V	2
MIC OUT(R)	3
MIC GND	4
MIC OUT(L)	5
MIC GND	6

CL4901
CL4902
C4914 0.1
R4923 47K
R4924 2200
C4915 0.047
R4925 10K
R4926 1200
C4916 0.1
QR4903 UN9212
(WIND SW(H):ON)
C4917 0.047
R4928 2200
R4929 10K
R4927 47K
R4930 1200
QR4904 UN9212
(WIND SW(H):ON)
L4901 10µ
R4906 10K
R4905 470
R4907 150K
C4902 16V1
Q4902 2SB1462 (AMP)
R4910 5600
R4911 150
R4908 56K
R4909 1K
C4905 6V22
Q4901 2SD2216 (AMP)
R4912 470
R4913 10K
R4914 150K
C4906 16V1
Q4904 2SB1462 (AMP)
Q4903 2SD2216 (AMP)
R4915 56K
R4916 1K
R4917 5600
R4918 150
C4910 6V22
Q4905 2SD2216 (REG 5V:ON)
R4919 4700
C4911 6V22
C4901 6V10
C4702 6V10
L4701 10µ
R4708 3900
R4709 3900
R4706 8200
R4710 1K
Q4702 XP4401 (AMP)
C4704 0.015
X4701 VSX0982
IC4701 M9831-103MSK (SOUND TITLE CONTROL)
RESET
XT
XT
VDD
DI
CI
GND
AOUT
R4702 1K
C4703 0.015
C4705 0.015
R4707 8200
R4703 150K
R4705 0
Q4701 2SD1979 (MUTE)
R4704 3900
R4711 1K

(B1)
(B2)
(B3)
(B4)
(B5)
(B6)
(B-LINE)
(B2)
(B3)

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ON THIS DIAGRAM IS RECORD MODE.(SP MODE)
:THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.



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B

A

1 2 3

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

TO VTR MAIN CONNECTION <TO PROCESS>
546 REF CLK (A1)
547 IN H (A2)
548 IN V (A3)
557 C SI0 CSI0
558 C SI1 CSI1
559 C SI2 CSI2
560 C SI3 CSI3
561 C SI4 CSI4
562 C SI5 CSI5
563 C SI6 CSI6
564 C SI7 CSI7
549 Y SI0 YSI0
550 Y SI1 YSI1
551 Y SI2 YSI2
552 Y SI3 YSI3
553 Y SI4 YSI4
554 Y SI5 YSI5
555 Y SI6 YSI6
556 Y SI7 YSI7
545 TDI CAM (A4)
580 CAM TDO (A5)
565 CAM CLK (A6)
567 PB VS (A11)
566 PB HS (A12)
568 PB Y0 PBY0
569 PB Y1 PBY1
570 PB Y2 PBY2
571 PB Y3 PBY3
572 PB Y4 PBY4
573 PB Y5 PBY5
574 PB Y6 PBY6
575 PB Y7 PBY7
576 PB C0 PBC0
577 PB C1 PBC1
578 PB C2 PBC2
579 PB C3 PBC3

TO VTR MAIN CONNECTION <TO DIF>
591 INF (A9)
590 CLK246 (A10)

TO VTR MAIN CONNECTION <TO CONTROL>
510 V PLL V PLL
511 FS PLL FS PLL
519 WIDE WIDE
517 Y G CTL Y G CTL
516 C G CTL C G CTL
520 CHR BLK CHR BLK
522 CLP RST (H) (N1)
521 CHR Y CHR Y

TO VTR MAIN CONNECTION <TO LCD>
588 LCD Y (N2)
587 CR OUT (N3)
586 CB OUT (N4)
589 LCD HD

TO VTR MAIN CONNECTION <TO CONTROL/LCD>
592 V BLK (N27)

TO VTR MAIN CONNECTION <TO POWER>
528 REG 3V
527 REG 2V
529 REG 5V
530 DIF 3V
526 V 3V

TO VTR MAIN CONNECTION <TO D GND>
531 D GND

TO VTR MAIN CONNECTION <TO SPK AMP CONNECTION/EVR>
542 V OUT

TO VTR MAIN CONNECTION <TO RS232C>
501 Y OUT
500 C OUT

TO VTR MAIN CONNECTION <TO CONTROL>
507 MC VS (N30) (N6) (N5)

IC3005 BH7086KV (VCO)
IC3006 NJM2538V (VIDEO OUT)
IC3001 T9P90EF (DVIO) Digital Video In/Out
Q3001 2SD2216 (AMP)
Q3002 2SD2216 (AMP)
QR3001 UN9212 (CLP RST(H) ON)
X3001 VSX0991 (27MHz)
SHM225
VLP0324A601
VLP0324A221
VLQ0584

(A-LINE) (C-SIGNAL) (PB Y-SIGNAL) (Y-SIGNAL) (PB C SIGNAL) REG 3V REG 2V V PLL FS PLL (N-LINE)
DIGITAL Y IN DIGITAL C IN DIGITAL Y OUT DIGITAL C OUT SHUFFLE MEMORY DATA

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

DIF 3V
LB3004 VLP0355A121
CL3003
R3046 0
C3078 5P
C3079 5P
R3054 1M
R3053 0
X3003 VSX0846 (24.576MHz)
LB3009 VLP0324A601
C3009 0.1
C3018 0.01
R3010 1K
L3005 22µ
C3023 6V22

IC3003
MN67373
(CAS)
Compresion
Audio process
Shuffle

SHM225
HSP
VSP
DFD7
DFD6
DFD5
DFD4
DFD3
DFD2
DFD1
DFD0
COMPRESSION DATA
C3008 0.1
CLK18M2
SMADD17
SMADD16
SMADD15
SMADD14
SMADD13
SMADD12
SMADD11
C3076 0.01
ADDRESS
DATA
DOBCK
DOMCK
DOLRCK
DODAT
AIDAT
DCS CLK
DCS DATA
DC STP2
DC STP1
RECMUT
DILRCK
LKFRP
SCK
SDA
STP
CLK246
RST
TMS
TCK
TDI
TDO
PWMO
FS0
FS1
VCOI
VCOO
TINT0
TINT1
TINT2
TINT3
TINT4
TINT5
TINT6
TINT7
R3052 1M
C3077 0.01
SSP
SMP
SMCE
SMRS
SMWE
SMWS
SMDIOS
BD3
BD2
BD1
BD0

IC3002
MN47V07AF
(SHUFFLE MEMORY)

SMADD1
SMADD0
DFD7
DFD6
DFD5
DFD4
C3006 0.1
DSF7
DSF6
DSF5
DSF4
SMADD17
SMADD16
COMPRESSION DATA
SHUFFLE MEMORY DATA
SMADD2
SMADD3
SMADD4
SMADD5
SMADD6
SMADD7
SMADD8
ADDRESS
SMADO15
SMADO14
SMADO13
SMADO12
SMADO11
SMADO10
SMADO9
R3001 0
C3073 0.01
SMCE
SMRS
/CE
/RFSH
SOC
/RS
/DOCTL
/OE
/DIOS
C3074 0.01
C3007 0.1
SMWS
SMWE
/WS
SIC
/WE
CS
TCK
TMS
TDI
R3050 470
R3048 220
R3051 470
R3049 220
R3044 220

C4510 6V10
C4509 0.1
C4508 6V10
C4507 0.1
C4506 6V10
C4505 0.1
C4504 6V10
R4501 10
C4501 0.01
IC4501
AK4516VF
(AUDIO DA/AD)
VCOM
VCMR
VCML
ROUT
LOUT
DZF
CDTI
CDTO
CCLK
/CS
VD
DGND
AGND
VA
RIN1
LIN1
RIN2
LIN2
IPD
MCLK
LRCK
BCLK
SDTO
SDTI
C4503 6V10
C4502 0.01
C4513 1
C4514 1
R4504 1K
L4502 10µ
C3075 0.01

TO VTR MAIN CONNECTION <TO VIDEO2>
CLK450K 581
EDA TDO 584
V D 3V 582
V D 2V 583
V M 3V 585
TO VTR MAIN CONNECTION <TO PROCESS/CONTROL/ VIDEO2/DIF/EVR>
TCK 544
TO VTR MAIN CONNECTION <TO VIDEO2/PROCESS/DIF/EVR>
TMS 543
TO VTR MAIN CONNECTION <TO VIDEO2/DIF/CONTROL>
SSP 524
TO VTR MAIN CONNECTION <TO VIDEO2/DIF/CONTROL>
BD0 536
BD1 537
BD2 538
BD3 539
SMP 540
CLK18M2 541
TO VTR MAIN CONNECTION <TO EVR>
TDO 502
TO VTR MAIN CONNECTION <TO SPK AMP CONNECTION>
A AD IN L 534
A AD IN R 535
TO VTR MAIN CONNECTION <TO AUDIO>
DA OUT L 532
DA OUT R 533
TO VTR MAIN CONNECTION <TO CONTROL/DIF>
FRP 525
TO VTR MAIN CONNECTION <TO CONTROL/VIDEO2>
RST LSI 523
TO VTR MAIN CONNECTION <TO CONTROL>
DC S CLK 504
DC S DATA 505
DC STP1 506
DC STP2 507
AFRP 503
SBA S DATA 514
SBA S CLK 513
SBA CS 512
TINT2 515
CG HD 509

REG 3V
REG 2V
V 3V
V 3V

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART.(SP MODE)

12	13	14	15	16	17	18	19	20	21	22

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP

IC3201
M65501FP
(EDA IC)
Error correction
DCI
ATF servo.

IC3203
AN3741FAP
(EQ & A/D
CLOCK OUT)

IC3204
AD9057BRS-60
(VITERBI A/D)

IC3205
TC7SH08FU

IC3202
MNV4260
(EDA MEMORY)

Q3203
2SC4627
(AMP)

Q3201
2SD2216
(BUFFER)

Q3204
2SD2216
(SWITCHING)

Q3202
2SB1462-R
(TRICK:ON)

D3201
MA132WA

TO VTR MAIN CONNECTION <TO CONTROL/DIF>
632 ALE
633 AD DT0
634 AD DT1
635 AD DT2
636 AD DT3
637 AD DT4
638 AD DT5
639 AD DT6
640 AD DT7
641 AD DT8
642 AD DT9
643 AD DT10
644 AD DT11
645 AD DT12
646 AD DT13
647 AD DT14
648 DT15

TO VTR MAIN CONNECTION <TO CONTROL>
613 RD
611 BLW

TO VTR MAIN CONNECTION <TO HEAD AMP/EVR/CONTROL>
664 HID1 (A1)

TO VTR MAIN CONNECTION <TO CONTROL/EVR>
629 SPA (A2)

TO VTR MAIN CONNECTION <TO DRIVE/CONTROL>
623 CYL FG (A3)

TO VTR MAIN CONNECTION <TO DRIVE>
622 CYL PG (A4)

TO VTR MAIN CONNECTION <TO VIDEO1/CONTROL>
628 RST LSI (A5)

TO VTR MAIN CONNECTION <TO DIF>
620 DIF TDO (A6)
621 PHY RST (A10)

TO VTR MAIN CONNECTION <TO PROCESS/VIDEO1 /DIF/EVR>
600 TMS

TO VTR MAIN CONNECTION <TO PROCESS/VIDEO1 CONTROL/DIF/EVR>
601 TCK

TO VTR MAIN CONNECTION <TO VIDEO1/DIF/CONTROL>
619 SSP

TO VTR MAIN CONNECTION <TO VIDEO1/DIF>
658 BD0
659 BD1
660 BD2
661 BD3
662 SMP
663 CLK18M2 (B2)

TO VTR MAIN CONNECTION <TO VIDEO1>
614 CLK450K (B1)
616 V D 3V
615 V D 2V
617 EDA TDO (A7)
618 V M 3V

TO VTR MAIN CONNECTION <TO EVR>
630 ATFI
631 VIDEO VCO

TO VTR MAIN CONNECTION
627 D GND

TO VTR MAIN CONNECTION <TO HEAD AMP>
REC I 649
PB 650
HID2 651
HID3 652
REC C CTL 653
EQ HLD 654
RF AGC OUT 655
ATF OUT 656
HSE 657

TO VTR MAIN CONNECTION <TO CONTROL>
TSR 612
COMP 608
ALFA 606
ERR DL 603
CLK PH 602
AT FG 605
BETA 607
DL ADJ 604
V VCO 609
VCO 610

TO VTR MAIN CONNECTION <TO POWER>
DIF 3V 626
REG 5V 625
REG 3V 624

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH AIM THE CAMERA AT THE COLOUR CHART.(SP MODE)

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	3.3	3.3	3.3	0	3.3	3.3	0	3.8	0	1.7	3.3	0	2.8	2.8	2.8	2.8	0	3.3	1.6
PLAY	0	3.3	3.3	3.3	0	3.3	3.3	0	3.8	0	1.7	3.3	0	2.8	2.8	2.8	2.8	0	3.3	1.6
REC	0	3.3	3.3	3.3	0	3.3	3.3	0	3.8	0	1.7	3.3	0	2.8	2.8	2.8	2.8	0	3.3	1.6
F.F	0	3.3	3.3	3.3	0	3.3	3.3	0	3.8	0	1.7	3.3	0	2.8	2.8	2.8	2.8	0	3.3	1.6
REW	0	3.3	3.3	3.3	0	3.3	3.3	0	3.8	0	1.7	3.3	0	2.8	2.8	2.8	2.8	0	3.3	1.6
REF. NO.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	1.6	0	0	3.3	3.3	3.3	0	0	3.2	3.3	2.8	3.3	0	2.8	2.8	3.3	3.3	3.3	3.3	3.3
PLAY	1.6	0	0	3.3	3.3	3.3	0	0	3.2	0	2.8	3.3	0	2.8	0	0	3.3	3.3	3.3	0
REC	1.6	0	0	3.3	3.3	3.3	0	0	3.2	3.3	2.8	3.3	0	2.8	3.3	3.3	3.3	3.3	3.3	3.3
F.F	1.6	0	0	3.3	3.3	3.3	0	0	3.2	0	2.8	3.3	0	2.8	0	0	3.0	3.3	3.3	0
REW	1.6	0	0	3.3	3.3	3.3	0	0	3.2	0	2.8	3.3	0	2.8	0	0	3.0	3.3	3.3	0
REF. NO.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	3.3	0	3.3	3.3	1.7	3.3	3.3	3.3	3.3	0	1.4	3.3	0	1.4	2.8	1.4	1.4	2.7	2.8	0.1
PLAY	3.3	0	3.3	3.3	1.7	3.3	3.3	3.3	3.3	0	0	3.3	0	1.4	1.6	1.4	1.4	2.7	1.9	2.5
REC	3.3	0	3.3	3.3	1.6	3.3	3.3	3.3	3.3	0	0	3.3	0	1.4	1.3	2.8	1.4	2.7	2.1	2.0
F.F	3.3	0	3.3	3.3	1.6	3.3	3.3	3.3	3.3	0	3.3	3.3	0	1.4	1.6	1.4	1.4	2.7	1.6	1.6
REW	3.3	0	3.3	3.3	1.6	3.3	3.3	3.3	3.3	0	3.3	3.3	0	1.4	1.6	1.4	1.4	2.7	1.6	1.6
REF. NO.	IC2001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	1.4	0	1.4	0	3.3	3.3	0	2.7	2.6	0.1	3.3	3.3	3.3	1.3	3.3	2.4	1.8	2.6	0.2
PLAY	0	1.4	0	1.4	0	3.3	0	3.3	2.7	2.6	2.5	3.3	3.3	3.3	1.3	3.3	2.4	1.8	2.6	0.2
REC	0	1.4	0	1.4	0	3.3	3.3	0	2.7	2.6	0.1	3.3	3.3	3.3	1.3	3.3	2.4	1.8	2.6	0.2
F.F	0	1.4	0	1.4	0	3.3	0	3.3	2.7	2.6	2.5	3.3	3.3	3.3	1.3	3.3	2.4	1.8	2.6	0.2
REW	0	1.4	0	1.4	0	3.3	0	3.3	2.7	2.6	2.5	3.3	3.3	3.3	1.3	3.3	2.4	1.8	2.6	0.2
REF. NO.	IC2001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	3.2	2.5	2.2	3.3	0	0	0	3.0	0	3.3	3.3	1.6	0	0	0	1.6	2.8	2.8	0	0.7
PLAY	3.2	2.5	2.2	3.3	0	0	0	3.0	0	3.3	3.3	1.6	1.2	0	1.5	1.6	2.8	2.8	0	1.1
REC	3.2	2.5	2.2	3.3	0	0	0	2.9	0	3.3	—	1.6	1.2	0	0	1.6	2.8	2.8	0	1.0
F.F	3.2	2.5	2.2	3.3	0	0	0	2.9	0	3.3	—	1.6	1.2	0	1.5	1.6	2.8	2.8	3.3	1.4
REW	3.2	2.5	2.2	3.3	0	0	0	2.9	0	3.3	3.3	1.6	1.2	0	1.5	1.6	2.8	2.8	3.3	1.0
REF. NO.	IC2001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0	3.3	0	0	3.2	0	2.6	2.9	0	0	0	0	0	0	0	0	1.5	2.1	0	3.3
PLAY	0	3.3	0	0	3.2	0	2.6	2.9	0	0	0	0	0	0	0	0	1.5	2.1	0	1.3
REC	0	3.3	0	0	3.2	0	2.6	2.9	0	0	0	0	0	0	0	0	1.5	2.1	0	3.3
F.F	0	3.3	0	0	3.2	0	2.6	2.9	0	2.8	2.8	0	0	0	0	0	1.5	2.1	0	3.3
REW	0	3.3	0	0	3.2	0	2.6	2.9	0	2.8	2.8	0	0	0	0	0	1.5	2.1	0	3.3
REF. NO.	IC2001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	0	0	0	2.8	2.8	2.8	3.3	3.3	2.3	0	2.3	1.0	0	0	0	2.3	2.2	2.2	0.1	0.1
PLAY	0	0	0	2.8	2.8	2.8	3.3	3.3	2.3	0	2.3	1.0	0	0	0	2.2	2.2	2.2	0.1	0.1
REC	0	0	0	2.8	2.8	2.8	3.3	3.3	2.3	0	2.3	1.0	0	0	0	2.3	2.2	2.2	0.1	0.1
F.F	0	0	0	2.8	2.8	2.8	3.3	3.3	2.3	0	2.3	1.0	0	0	0	2.2	2.2	2.2	0.1	0.1
REW	0	0	0	2.8	2.8	2.8	3.3	3.3	2.3	0	2.3	1.0	0	0	0	2.3	2.2	2.2	0.1	0.1
REF. NO.	IC2001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156				
STOP	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	2.3				
PLAY	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	2.3				
REC	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	2.3				
F.F	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	2.3				
REW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	2.3				
REF. NO.	IC2006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.2	0.2	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
PLAY	0.2	0.2	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
REC	0.2	0.2	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
F.F	0.2	2.8	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
REW	0.2	2.8	0.2	0	0	0	0	2.8	0.9	1.7	2.5	1.8	1.1	1.8	2.2	1.8	1.7	1.6	1.6	1.5
REF. NO.	IC2006																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	2.0	1.8	2.0	1.4	1.1	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
PLAY	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
REC	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
F.F	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8
REW	2.0	1.8	2.0	1.4	1.2	0.4	0.9	0.8	2.8	0	2.8	0	1.5	1.6	1.3	1.6	1.4	2.8	2.8	2.8

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2006																			
MODE	41	42	43	44	45	46	47	48												
STOP	0	0	0	1.6	1.8	1.3	1.0	1.3												
PLAY	0	0	0	1.6	1.8	1.3	1.0	1.3												
REC	0	0	0	1.6	1.8	1.3	1.0	1.3												
F.F	0	0	0	1.6	1.8	1.3	1.0	1.3												
REW	0	0	0	1.6	1.8	1.3	1.0	1.3												
REF. NO.	IC2007																			
MODE	1	2	3	4	5	6	7	8												
STOP	2.8	1.1	1.6	0	1.6	0.2	2.8	2.8												
PLAY	2.8	2.3	1.6	0	1.6	2.4	2.8	2.8												
REC	2.8	2.3	1.6	0	1.6	2.4	2.8	2.8												
F.F	1.5	1.1	1.3	0	1.3	1.2	1.5	2.8												
REW	1.5	1.1	1.3	0	1.3	1.2	1.5	2.8												
REF. NO.	IC2011																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	2.3	0.6	0	0	2.8	0	2.8	2.8	1.4	1.1	0	0	0	2.8	2.8	0	0	2.8	0	0
PLAY	2.2	0.8	0	0	2.8	0	2.8	2.8	1.4	0.9	0	0	0	2.8	2.8	0	0	2.8	0	0
REC	2.3	0.6	0	0	2.8	0	2.8	2.8	1.4	1.0	0	0	0	2.8	2.8	0	0	0	0	0
F.F	2.2	0.8	0	0	2.8	0	2.8	2.8	1.4	0.9	0	0	0	2.8	2.8	0	0	2.8	0	0
REW	2.1	0.8	0	0	2.8	0	2.8	2.8	1.4	0.9	0	0	0	2.8	2.8	0	0	2.8	0	0
REF. NO.	IC2011																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	2.8	0	2.8	0	0	2.8	0	2.8	0	0	2.8	0	0	0	2.8	0	0	0	0	0
PLAY	2.8	0	2.8	0	0	0	0	0	2.8	0	2.8	0	0	0	2.8	0	0	0	0	0
REC	2.8	0	2.8	0	0	2.8	0	2.8	0	0	2.8	0	0	0	2.8	0	0	0	0	0
F.F	2.8	0	2.8	0	0	2.8	0	0	2.8	0	2.8	0	0	0	2.8	0	0	0	0	0
REW	2.8	0	2.8	0	0	2.8	0	0	2.8	0	2.8	0	0	0	2.8	0	0	0	0	0
REF. NO.	IC2011																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	0	2.8	0	2.8	2.8	0	0	2.8	2.8	2.7	0	0	0	2.1
PLAY	0	0	0	0	0	0	0	2.8	0	2.8	2.8	0	0	2.8	2.8	2.7	0	0	0	2.1
REC	0	0	0	0	0	0	0	2.8	0	2.8	2.8	0	0	2.8	2.8	2.7	0	0	0	2.1
F.F	0	0	0	0	0	0	0	2.8	0	2.8	2.8	0	0	2.8	2.8	2.7	0	0	0	2.1
REW	0	0	0	0	0	0	0	2.8	0	2.8	2.8	0	0	2.8	2.8	2.7	0	0	0	2.1
REF. NO.	IC2011																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	2.8	2.8	0	0	0	0	0	0	0	1.4	0	0	2.7	2.8	2.8	2.7	0.1
PLAY	0	0	0	2.8	2.8	0	0	0	0	0	0	0	1.4	0	0	2.7	2.8	2.8	2.6	2.5
REC	0	0	0	2.8	2.8	0	0	0	0	0	0	0	1.4	0	0	2.7	2.8	2.8	2.6	0.1
F.F	0	0	0	2.8	2.8	0	0	0	0	0	0	0	1.4	0	0	2.7	2.8	2.8	2.6	2.5
REW	0	0	0	2.8	2.8	0	0	0	0	0	0	0	1.4	0	0	2.7	2.8	2.8	2.6	2.5
REF. NO.	IC2013																			
MODE	1	2	3	4	5															
STOP	0	0	0	3.2	5.1															
PLAY	0	0	0	3.2	5.1															
REC	0	0	0	3.2	5.1															
F.F	0	0	0	3.2	5.1															
REW	0	0	0	3.2	5.1															

SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q2001			Q2002			Q2003											
MODE	E	C	B	E	C	B	E	C	B									
STOP	2.8	2.8	3.3	5.1	0	4.7	0.2	7.6	0									
PLAY	2.8	2.8	3.3	5.1	0	4.7	0.2	7.6	0									
REC	2.8	2.8	3.3	5.1	0	4.7	0.2	7.6	0									
F.F	2.8	2.8	3.3	5.1	0.5	4.7	0.5	7.6	0.5									
REW	2.8	2.8	3.3	5.1	0.5	4.7	0.5	7.6	0.5									
REF. NO.	QR2002						QR2003						QR2004			QR2005		
MODE	1	2	3	4	5	6	1	2	3	4	5	6	E	C	B	E	C	B
STOP	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3	2.8	0	2.8
PLAY	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3	2.8	0	2.8
REC	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3	2.8	0	2.8
F.F	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3	2.8	0	2.8
REW	0	2.8	0	0	0	0	0	2.8	0	0	0	0	2.8	0	3.3	2.8	0	2.8
REF. NO.	QR2008			QR2009			QR2010			QR2014								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	2.8	0	2.8	0	2.8	2.8	2.8	0	0	2.8	0						
PLAY	0	2.8	0	2.8	2.8	0	2.8	0	2.8	0	2.8	0						
REC	0	2.8	0	2.8	0	2.8	2.8	2.8	0	0	2.8	0						
F.F	0	2.8	0	2.8	2.8	0	2.8	0	2.8	0	2.8	0						
REW	0	2.8	0	2.8	2.8	0	2.8	0	2.8	0	2.8	0						

VTR MAIN C.B.A. (1)

Integrated Circuit

IC601	D-4	C
IC602	D-1	C
IC604	C-4	C
IC2001	B-3	C
IC2002	A-6	F
IC2003	B-4	F
IC2004	B-6	F
IC2005	A-6	F
IC2006	D-4	C
IC2007	A-2	C
IC2008	B-7	F
IC2009	B-6	F
IC2010	B-6	F
IC2011	C-2	C
IC2012	B-7	F
IC2013	C-3	C
IC2014	A-6	F
IC2015	B-1	C
IC3001	D-4	F
IC3002	C-7	F
IC3003	C-5	F
IC3005	B-6	F
IC3006	B-2	F
IC3201	B-4	C
IC3202	A-5	F
IC3203	B-3	F
IC3204	C-4	F
IC3205	C-4	C
IC3801	C-6	C
IC4001	A-6	C
IC4501	B-5	C
IC6501	C-5	C
IC6502	C-6	C
IC6503	C-5	C
IC6505	B-2	F
IC6506	B-2	F

Transistor

Q501	D-3	C
Q502	D-3	C
Q503	D-3	C
Q504	D-3	C
Q505	D-3	C
Q506	D-3	C
Q507	C-2	C
Q601	D-7	F
Q602	D-7	F
Q603	D-5	F
Q604	D-5	F
Q607	D-2	C
Q608	C-3	C
Q609	D-5	F
Q610	D-7	F
Q2001	B-2	C
Q2002	C-1	C
Q2003	C-1	C
Q2006	C-5	F
Q3001	C-5	F
Q3002	C-5	F
Q3201	B-3	F
Q3202	B-4	F
Q3203	B-3	F
Q3204	C-3	F

Transistor & Resistor

QR601	D-7	F
QR604	C-3	C
QR606	D-5	F
QR2001	B-7	F
QR2002	A-2	C
QR2003	A-2	C
QR2004	B-2	C
QR2005	B-1	C
QR2006	B-5	F
QR2007	B-6	F
QR2008	A-4	C
QR2009	B-2	C
QR2010	B-2	C
QR2011	B-7	F
QR2013	B-7	F
QR2014	A-4	C
QR3001	B-2	F

Test Point

CL2001	A-6	F
CL2002	A-6	F
CL2003	A-6	F
CL2004	A-5	F
CL3001	C-3	F
CL3002	B-6	F
CL3003	D-6	F
CL3004	D-4	F
CL3202	A-4	F
CL3203	C-4	C
CL3204	C-4	C

Diode

D2001	C-3	C
D2002	B-2	C
D2003	B-7	F
D2004	C-6	F
D2006	A-1	C
D2007	B-1	C
D2009	B-7	F
D2010	B-1	C
D2013	C-3	C
D2015	C-4	C
D2016	C-4	C
D2017	C-3	C
D2018	C-6	F
D2020	A-2	C
D2021	A-4	C
D2022	A-2	C
D2023	A-5	F
D2025	B-1	C
D2026	B-7	F
D3201	B-3	F
D6501	D-5	C
D6502	D-5	C
D6503	D-5	C
D6504	D-5	C
D6505	D-5	C
D6506	D-5	C

Connector

FP602	D-4	C
FP3201	A-5	C
FP3501	D-2	C
FP3504	B-1	F
FP6001	D-5	C
FP6002	B-7	F
PP2201	C-1	C
PP3001	B-6	F
PP4802	B-6	C
PS3001	C-2	F
PS3002	D-6	F

Jack

JK3801	A-1	F

Coil

L601	D-7	F
L602	D-7	F
L603	D-5	F
L605	D-3	C
L606	D-5	F
L607	D-4	C
L2001	C-4	C
L2002	B-4	F
L2003	B-1	C
L2004	C-3	C
L2006	A-1	C
L3001	D-5	F
L3002	B-6	F
L3003	D-5	F
L3004	B-5	F
L3005	D-6	F
L3006	B-5	F
L3007	D-6	F
L3008	B-5	F
L3009	B-5	F
L3010	A-2	F
L3011	A-2	F
L3201	C-4	C
L3202	A-4	F
L3203	A-4	C
L3204	A-4	C
L3205	C-4	F
L3206	A-3	F
L3207	A-4	F
L3208	A-5	F
L3209	A-4	F
L3801	C-2	F
L3802	B-2	F
L3803	B-2	F
L3901	A-5	C
L4001	A-6	C
L4502	B-6	C
L6501	B-6	C
L6502	B-7	F
L6503	B-7	F
LB3001	D-5	F
LB3002	D-6	F
LB3003	B-5	F
LB3004	D-5	F
LB3005	B-5	F
LB3007	D-3	F
LB3008	D-4	F
LB3009	C-6	F
LB3010	D-5	F
LB3994	B-1	F
LB3995	B-1	F
LB3996	B-1	F
LB3997	B-1	F

Crystal Oscillator

X2001	B-3	C
X2002	A-1	C
X2003	C-1	C
X3001	D-4	F
X3003	C-6	F

Capacitor

C501	D-3	C
C502	D-3	C
C503	D-3	C
C601	D-7	F
C602	D-7	F
C603	C-1	C
C604	C-2	C
C605	C-2	C
C606	C-1	C
C607	C-1	C
C608	C-1	C
C609	C-1	C
C610	C-1	C
C611	C-1	C
C612	D-2	C
C613	D-2	C
C614	D-2	C
C615	D-1	C
C616	D-1	C
C617	C-2	C
C618	C-2	C
C619	D-2	C
C620	C-1	C
C621	C-1	C
C622	C-1	C
C623	C-1	C
C624	C-1	C
C625	C-1	C
C626	C-1	C
C630	D-1	C
C631	D-1	C
C632	D-1	C
C633	D-3	C
C634	D-5	F
C635	C-3	C
C636	D-4	C
C637	D-4	C
C638	D-4	C
C639	D-4	C
C640	D-4	C
C641	C-4	C
C642	D-4	C
C643	D-4	C
C644	D-4	C
C645	D-4	C
C646	D-4	C
C647	D-3	C
C648	C-3	C
C649	D-4	C
C650	D-3	C
C651	D-3	C
C652	C-4	C
C653	C-3	C
C654	D-4	C
C655	C-4	C
C656	D-4	C
C657	C-4	C
C658	C-3	C
C662	C-3	C
C663	D-3	C
C664	D-3	C
C665	D-5	F
C667	D-5	F
C671	D-7	F
C2001	B-3	C
C2002	B-3	C
C2003	B-4	C
C2004	A-2	C
C2005	A-6	F
C2006	A-7	F
C2007	B-2	C
C2008	B-7	F
C2009	B-6	F
C2010	D-4	C
C2011	C-5	C
C2012	C-1	C
C2013	C-3	C
C2014	C-3	C
C2015	C-3	C
C2016	B-7	F
C2017	A-6	F
C2018	B-6	F
C2019	A-6	F
C2020	A-2	C
C2021	B-6	F
C2022	A-4	C
C2023	B-5	F
C2024	A-3	C
C2025	A-3	C
C2026	C-3	C
C2027	C-3	C
C2028	B-2	C
C2029	C-2	C
C2030	B-1	C
C2033	B-2	C
C2034	B-6	F
C2037	B-4	F
C2038	B-4	F
C2040	A-7	F
C2042	B-6	F
C2043	C-1	C
C2044	B-4	F
C2045	B-5	F
C2046	B-5	F
C2047	B-6	F
C2048	A-6	F
C2049	A-4	C
C2050	A-6	F
C2051	B-2	C
C2199	B-5	F
C3001	B-5	F
C3002	A-2	F
C3003	B-5	F
C3004	D-5	F
C3005	D-3	F
C3006	C-7	F
C3007	D-7	F
C3008	D-5	F
C3009	C-6	F
C3010	C-3	F
C3011	C-3	F
C3012	B-2	F
C3013	B-2	F
C3015	D-4	F
C3018	C-6	F
C3020	B-6	F
C3021	B-6	F
C3023	C-6	F
C3025	A-2	F
C3026	B-2	F
C3027	B-6	F
C3028	B-6	F
C3029	B-2	F
C3030	B-6	F
C3035	B-5	F
C3036	B-5	F
C3037	B-5	F
C3038	B-5	F
C3039	B-5	F
C3040	B-5	F
C3041	B-5	F
C3042	B-6	F
C3043	C-5	F
C3044	C-5	F
C3045	C-5	F
C3046	C-5	F
C3047	C-5	F
C3048	C-5	F
C3050	C-5	F
C3051	C-5	F
C3053	C-5	F
C3054	C-5	F
C3055	D-5	F
C3056	D-5	F
C3057	D-5	F
C3058	D-4	F
C3060	D-4	F
C3061	D-4	F
C3065	C-4	F
C3066	D-5	F
C3067	C-5	F
C3071	C-4	F
C3072	C-4	F
C3073	C-7	F
C3074	D-6	F
C3075	B-5	F
C3076	C-5	F
C3077	B-6	F
C3078	C-6	F
C3079	C-6	F
C3080	B-2	F
C3081	B-2	F
C3083	A-1	F
C3084	B-2	F
C3086	A-2	F
C3088	B-2	F
C3089	A-2	F
C3090	A-2	F
C3091	A-2	F
C3092	A-2	F
C3094	D-5	F
C3096	D-6	F
C3201	B-5	C
C3202	B-5	C
C3203	C-5	C
C3204	C-5	C
C3205	C-5	C
C3206	C-5	C
C3207	C-5	C
C3208	A-4	F
C3209	B-3	F
C3210	B-3	F
C3211	B-3	F
C3212	B-3	F
C3213	B-3	F
C3214	B-3	F
C3215	B-4	F
C3216	A-3	F
C3217	A-3	F
C3218	A-3	F
C3219	A-3	F
C3220	A-3	F
C3221	A-4	F
C3222	A-3	F
C3223	A-3	F
C3224	A-4	C
C3225	B-4	F
C3226	A-3	F
C3227	B-4	F
C3228	B-4	F
C3229	B-4	F
C3230	B-4	F
C3231	B-4	F
C3232	B-4	F
C3233	B-3	F
C3234	B-3	F
C3235	B-3	F
C3236	B-3	F
C3237	B-3	F
C3238	B-3	F
C3239	C-3	F
C3240	C-3	F
C3241	C-3	F
C3242	C-3	F
C3243	C-4	F
C3244	A-3	F
C3245	B-4	F
C3246	B-4	F
C3247	B-3	F
C3248	B-3	F
C3249	B-3	F
C3250	A-3	F
C3251	A-3	F
C3252	B-4	F
C3253	A-5	C
C3254	B-5	C
C3255	C-4	C
C3256	B-4	C
C3257	A-4	F
C3258	A-5	F
C3259	C-3	F
C3260	B-4	F
C3261	B-3	F
C3262	A-4	F
C3264	A-3	F
C3265	C-3	F
C3802	B-6	C
C3803	B-6	C
C3804	B-6	C
C3806	B-6	C
C3807	B-7	C
C3808	A-7	C
C3809	B-7	C
C3813	B-7	C
C3814	B-7	C
C3816	C-7	C
C3817	C-7	C
C3818	C-7	C
C3820	C-6	C
C3822	B-1	F
C3824	C-2	F
C3825	B-2	F
C3826	B-2	F
C3827	B-7	C
C3901	A-4	C
C3902	A-5	C
C3997	D-5	F
C3998	D-3	C
C3999	D-3	C
C4001	A-5	C
C4002	A-6	C
C4005	A-5	C
C4006	A-5	C
C4011	A-6	C
C4012	A-6	C
C4018	A-6	C
C4501	B-5	C
C4502	B-6	C
C4503	E-5	C
C4504	B-5	C
C4505	B-6	C
C4506	B-6	C
C4507	B-6	C
C4508	B-6	C
C4509	B-5	C
C4510	B-5	C
C4513	B-5	C
C4514	B-5	C
C4515	B-5	C
C6501	C-6	C
C6502	C-7	F
C6503	C-7	F

Resistor

R503	C-3	C
R504	D-3	C
R507	D-3	C
R508	D-3	C
R509	D-3	C
R510	D-3	C
R511	D-3	C
R512	D-3	C
R513	D-3	C
R514	D-3	C
R515	D-3	C
R516	D-3	C
R517	D-3	C
R518	D-3	C
R519	D-3	C
R520	D-3	C
R521	D-2	C
R522	C-3	C
R523	C-2	C
R525	C-3	C
R526	C-3	C
R527	D-5	F
R528	D-5	F
R529	D-7	F
R530	D-7	F
R533	D-3	C
R534	D-3	C
R536	D-3	C
R537	D-4	C
R538	C-4	C
R540	D-3	C
R541	D-3	C
R542	D-3	C
R543	D-3	C
R544	D-3	C
R545	D-3	C
R546	D-3	C
R547	D-2	C
R548	C-3	C
R604	D-3	C
R605	C-3	C
R606	D-7	F
R607	D-7	F
R608	D-7	F
R609	D-6	F
R610	D-5	F
R611	D-5	F
R612	D-5	F
R613	D-5	F
R616	D-2	C
R617	D-1	C
R619	C-1	C
R621	C-2	C
R622	C-2	C
R623	C-2	C
R624	C-1	C
R625	C-2	C
R629	C-1	C
R631	C-1	C
R634	D-1	C
R635	C-1	C
R636	C-1	C
R637	D-1	C
R639	D-1	C
R640	D-2	C
R642	D-2	C
R644	D-1	C
R647	C-2	C
R648	D-1	C
R649	D-1	C
R650	D-1	C
R651	D-1	C
R652	D-1	C
R653	D-2	C
R656	C-2	C
R657	D-2	C
R658	D-2	C
R659	D-3	C
R661	D-4	C
R663	D-4	C
R664	D-4	C
R665	D-4	C
R666	D-4	C
R667	D-4	C
R668	D-4	C
R671	D-4	C
R673	C-4	C
R674	C-3	C
R677	D-4	C
R680	C-3	C
R683	C-4	C
R685	C-3	C
R687	D-4	C
R690	C-4	C
R694	D-3	C
R695	D-3	C
R696	D-4	C
R697	D-2	C
R698	D-2	C
R699	D-2	C
R2001	A-4	C
R2002	B-3	C
R2003	B-3	C
R2004	B-3	C
R2005	A-2	C
R2006	A-3	C
R2007	A-3	C
R2008	A-6	F
R2009	A-2	C
R2011	A-1	C
R2012	B-4	C
R2013	B-2	C
R2014	B-2	C
R2015	A-2	C
R2016	A-2	C
R2017	A-2	C
R2018	A-2	C
R2019	A-2	C
R2020	A-2	C
R2021	B-2	C
R2022	B-2	C
R2023	C-1	C
R2024	C-1	C
R2025	C-1	C
R2026	C-1	C
R2027	C-1	C
R2028	B-2	C
R2029	B-6	F
R2030	B-2	C
R2031	B-3	C
R2032	B-7	F
R2033	B-3	C
R2034	D-6	F
R2036	A-1	C
R2037	A-5	F
R2040	B-1	C
R2041	C-5	F
R2042	C-3	C
R2043	A-2	C
R2044	B-2	C
R2045	A-1	C
R2046	B-5	F
R2047	C-3	C
R2048	B-2	C
R2049	B-4	C
R2050	B-3	C
R2051	B-3	C
R2052	A-4	C
R2053	B-6	F
R2054	C-2	C
R2055	B-2	C
R2056	B-3	C
R2057	C-2	C
R2058	B-1	C
R2059	A-2	C
R2060	A-2	C
R2061	A-2	C
R2062	A-2	C
R2063	A-2	C
R2064	A-2	C
R2065	A-2	C
R2066	B-6	F
R2067	B-1	C
R2068	B-1	C
R2069	C-3	C
R2072	B-7	F
R2073	C-2	C
R2074	B-7	F
R2075	C-2	C
R2076	B-6	F
R2077	B-6	F
R2078	B-7	F
R2080	B-5	F

ADDRESS INFORMATION

C ... COMPONENT SIDE **F** ... FOIL SIDE

IC2001-21 REC/PLAY
3.6Vp-p (50nsec/div.)

IC2001-54 REC/PLAY
3.0Vp-p (1msec/div.)

IC2001-55 REC/PLAY
3.0Vp-p (0.2msec/div.)

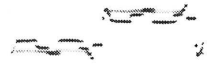
IC2001-92 REC/PLAY
4.8Vp-p (1µsec/div.)

IC2001-93 REC/PLAY
4.8Vp-p (1µsec/div.)

IC2201-58 REC/PLAY
2.8Vp-p (0.5msec/div.)

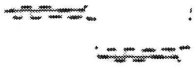
IC2201-59 REC/PLAY
3.0Vp-p (5msec/div.)

IC2201-60 REC/PLAY
3.0Vp-p (0.5msec/div.)



IC601-20 REC/PLAY/STOP
10VP-P (20µsec/div.)
COLOUR BAR
IC602-20 REC/PLAY/STOP
10Vp-p (20µsec/div.)
COLOUR BAR

IC601-22 REC/PLAY/STOP
10Vp-p (20µsec/div.)
COLOUR BAR
IC602-22 REC/PLAY/STOP
10Vp-p (20µsec/div.)
COLOUR BAR



IC601-24 REC/PLAY/STOP
10Vp-p (20µsec/div.)
COLOUR BAR
IC602-24 REC/PLAY/STOP
10Vp-p (20µsec/div.)
COLOUR BAR

	INITIAL/LOGO	ABBREVIATIONS
A	A GND	Analogue GND
	A HASW	Audio Head Amp Switching Pulse
	A HSW	Audio Switching Pulse
	A MUTE	Audio Mute
	A ORP	Audio Overlap Pulse
	A. TR	Auto Tracking
	A0-8, 0-17	Memory Address
	A3V2	AD Converter Reference Voltage
	AB0-4	Address Bus
	AB0-4, AB12-15	Address Bus Line 0-4, 12-15
	ABSF	Focus Encoder Input
	ACI	Analogue Channel Cording IC
	AD	AD Converter
	AD	Auto Date, Analogue Digital Converter
	AD CLK	AD Clock
	AD REC	Audio Delayed REC
	AD0-6	Address
	AD0-6, ADR0-6	Address Data Line
	ADCLK	Analogue Digital Converter Clock
	ADCNT	Analogue Digital Control
	ADCS	Analogue Digital Chip Select
	A-DET	Audio Detect
	ADREC	Audio Delaied Rec
	ADUB	Audio Dubbing
	AE	Auto Expose
	AECNT	Auto Expose Control
	AEE(H)	Audio E-E (H)
	AEH	Audio Erase Head
	AEIRQ	Auto Expose Interrupt Request
	AF/MF	Auto Focus/Manual Focus
	AF DIS CS	AF DIS Chip Select
	A-FADE(L)	Audio Fade (L)
	AF-AMP	AF HALL Bias
	AFCS	Auto Focus Chip Select
	AFRP	Audio PLL Voltage Control
	AF-VN	Zoom Encoder V-Ref (–)
	AF-VP	Zoom Encoder VREF (+)
	AGC	Automatic Gain Control
	AGCCNT	Automatic Gain Control Control
	AGND	Analogue Ground/Audio Ground
	AGS	Anti Ground Shooting
	AH(P) / (R)	Audio Head (Play) / (Record)
	AHASW	Audio Head Amp Switch Pulse
	AHSW	Audio Head Switch Pulse
	AI, AO	Buffer Input, Output
	AIBCK	Bit Clock (to A/D Converter)
	AIDAT	Serial Data (to A/D Converter)
	AILRCK	L/R Clock (to A/D Converter)
	AIMCK	Master Clock (to A/D Converter)
	ALC CNT	Auto Level Control Control
	ALC MAIN	Auto Level Control Drive
	ALE	Address Latch Enable
	A-LOCK	Full Auto Switch
	A-MUT(H)	Audio Mute (H)
	ANLPTH	Analogue Loop Through High
	AORP	Audio Overlap Pulse
	APCNT	Aperture Control
	APS	Auto Power Save
	ART VH	Artifical Vertical Sync
	AT CNT	Automatic Tracking Gain Adjust
	ATF	Automatic Track Finding
	ATFCLK	41.85MHz Clock
	ATFG	Auto Track Gain
	ATL	Auto Lock Select
	ATN	Absolute Track Number
	ATR OFF(H)	Auto Tracking Off (H)
	ATV	Advanced TV
	AUDIO(N)	Audio (Normal)
	AUX	Auxiliary
	AVDD	Analogue VDD
	AVSS	Analogue Ground
	AWTB	Auto White Balance B-Y
	AWTR	Auto White Balance R-Y
B	BACK	Back-up
	BACK UP	Microcomputer Back-up
	BACK VDD	Back-up Power
	BATT	Battery
	BATT ALARM	Battery Alarm
	BATT REF	Reference Voltage for Battery
	BCB	B Carrier Balance
	BCBM(B-Y)	B-Y Carrier Balance
	BCBM(R-Y)	R-Y Carrier Balance
	BD0-7	REC/Play In/Out Buss
	BDCK	Standard Bus Data Clock (9MHz)
	BDEN	Standard Bus Data Enable
	BEND	Data Block End Request
	BF	Burst Flag Pulse
	BFA	Burst Flag Pulse for Encorder
	BFO/BFI	Burst Flug Input/Output
	BI, BO	Buffer Input, Output
	BL	Back Light
	BL ON	Back Light ON (L)
	BL4V	Back Light 4V
	BLC 0, 1	Back Light Y Control Out, In
	BLDI/O	Back Light Drive Input/Output
	BLK	Blanking Pulse
	BLKA	Blanking for Encorder
	BLKA	Blanking Pulse for Encorder
	BLKI/O	Blanking Pulse In/Out

	INITIAL/LOGO	ABBREVIATIONS
	BLKZ	Blanking Pulse for Zoom Encorder
	BM	Balance Modulator
	BQUIET	Bus Out Control Signal
	BUF IN/OUT	Buffer In/Out
	B-Y KB	B-Y Carrier Balance
	B-YO	B-Y Signal Out
C	C A In/Out	Pre-Aperture In/Out
	CAPSTP	Capstan Stop Flag
	C CNT	Colour Control
	C SYNC	Composite Sync Signal
	C/N	Carrier/Noise
	C0-7, C00-07	Chrominance Signal 0-7
	CAGAIN	Aperture Gain Control
	CAM	Camera
	CAM CLK	Camera Clock
	CAM RST	Camera Reset
	CAM SIOC	Camera Serial In/Out Contol
	CAM T	Camera Test
	CAM TL	Capstan Trque Limit
	CAP EC	Capstan Trque Control
	CAP P(H)	Capstan Power On (H)
	CAP R/F/S	Capstan Reverse (H)/Stop (M)/Forward (L)
	CAP SW	Capstan Power Control Switch
	CAPSTP H	Capstan Stop Flag (Stop High)
	CAPVM	Capstan Motor Current
	CAPVS	Capstan Motor Power Control Switch
	CAS	Compresion, Audio Process, Shuffling/Deshuffling
	CAS	Memory Address Strobe (Active Low)
	CASDOWN, DWN	Cassette Down (L)
	CB, CR	Chroma B, Chroma R
	CBLK	Composite Blanking Pulse
	CC	Channel Cording
	CCA	Curent Drive Control
	CCA	Current Control Amp
	CCD	Charge Coupled Devise
	CCW	Counterclockwise
	CD SP0-7	Digital Chroma
	CDS	Correlate Double Sampling Signal
	CDS1, 2	Sampling Pulse for CCD Output Signal
	CE	Chip Enable
	CE	Control Pulse Erase
	CEC	Capstan Error Code
	C-ERA(H)	Control Erase (H)
	CFEM	Chrominance Memory Signal
	CFM	Chrominance Field Memory
	CFM1-4	Chroma Field Memory Signal
	CG CLK	Character Generator Clock
	CG CLK DATA	Clock Generator Data
	CG DATA	Character Generator Data
	CGC	Chrominance Gain Control
	CGCS	Character Generator Chip Select
	CGO	Character Generator Serial Data
	CH	Charge

	INITIAL/LOGO	ABBREVIATIONS
	CH1	Channel 1 (Odd Field)
	CHR	Character
	CHR BACK	Character Back-up
	CHR MIX	Character Mix
	CI, CO	Buffer In/Out
	CI,CO	Buffer Input & Output
	CIF	Control Signal Forward Input
	CIF, CIR	Positive Control Pulse, Negative Control Pulse
	CIR	Control Signal Reverse Input
	CK	Clock
	CL/CLK	Clock
	CLASS	Classeffication Signal for Compress (DCT/VLC)
	CLASS 0.1	Class Control Signal Durring DCT/VLC
	CLK135	13.5MHz System Clock
	CLK18	18MHz System Clock
	CLK2	Clock 2 (824XFH: 12.875MHz)
	CLK246	24.576MHz Clock
	CLK27	27MHz System Clock
	CLK450	450KHz Clock
	CLKDCLK	Digital Clock
	CLK-PH	Clock Phase Control
	CLK-REF	Reference Clock
	CLP-RST-H	Clamp Reset High Signal
	CLX	TFT X-axis Transmission Clock
	CLX, CLX1-4	Shift Clock for X Direction (LCD Panel)
	CLY	Shift Clock for Y Direction (LCD Panel)
	CLY	TFT Y-axis Transmission Clock
	CLY FG	Cylinder FG Signal
	CMEMO0-3	Chroma Memory Output Signal 0-3
	CMIX	Character Mix
	CMO	Chrominance Memory Output
	COMPC	Position Detection Pulse
	COM RDY	Serial Enable Signal
	CMODE	Camera Mode
	CNCLK	Clock
	CNR	Chrominance Noise Reduction
	CNT, CONT	Control
	CO	Control Out
	CO0-7	Chrominance Output 0 to 7 (Digital)
	COM	Common
	COM RDY	Serial Transmission Enable
	COMB	Comb Filter
	COS EQ	Cosin Equalizer
	CP	Clamp Pulse
	CP ON(H)	Camera Power On(H)
	CP2, 20	Clamp Pulse
	CP2A, CP2O	Encoder Clamp Pulse
	CPN	Component Signal
	CPOB	Clamp Pulse for Optical Blanking
	CPS	Composite Signal
	CPV	Gate Scan Clock
	CR OUT	Pre Apature Out
	CR POW SW	Camera Remote Power On Switch
	CRA	Aperture Gain Control

	INITIAL/LOGO	ABBREVIATIONS
	CRA	Pre Apature Gain Control
	CRST	Camera Reset
	CS	Chip Select
	CS 0-7	Chrominance Signal Out 0-7
	CSEL	Clock Phase Select
	CSI 0-7	Chrominance Signal In 0-7
	CTSW	Crosstalk Switch
	CURR	Current
	CW	Clockwise
	CYL EC	Cylinder Motor Trque Control
	CYL PG	Cylinder Motor PG
	CYL VM	Cylinder Motor Current or Power
D	D CLK	Digital Clock
	D MODE	Digital Mode Switch Signal
	D01-03	Zoom 01-03
	DA UV SEL	D/A Convertor U/V Select
	DAC	Digital Analogue Converter
	DAG	Digital Analogue Ground
	DB0-7	Data 0-7
	DB0-7	Microprocessor Data
	DCC	DC Clamp Control
	DCCNT	DC Control
	DCI	Digital Channel Cording IC
	DCLR	Digital Clear
	DCP	Digital Clamp Pulse
	DCS-CLK, DA	CAS & DV I/F Serial Clock
	DC-STP1	DCS Serial Start
	DC-STP2	DCS Serial Stop
	DCT	Discrete Cosine Transform (Compression)
	DCX7	Serial Data
	DEDP 0-3	Playback Data
	DEDR 0-3	Rec Data
	DEMO	Demodulation
	DEMP	A/D Convertor Empahsis Control
	DEMP	De-Emphasis
	DFD 0-7	Encode Data In/Out Between Shaffling Memory
	DFD0-7	Encode Input/Output Signal for Shuffling Memory
	DIBDCK	Bit Clock
	DICLK	Digital Clock
	DIDAT	Serial Data
	DIDAT	Serial Data Durring Digital Audio In
	DIF	Digital Interface
	DILRCK	L/R Clock
	DILRCK	Serial Clock Durring Digital Audio In
	DIMCK	Master Clock
	DIMCK	Mater Clock Durring Digital Audio In
	DIO 1-8	Data In/Out
	DIOS	Data In/Out Select Control Signal
	DIOS	Select Signal for Digital In/Out
	DIS	Digital Image Stabilizer
	DIS R/B	Digital Image Stabilizer Read (H)/Busy (L)
	DIS R/B	DIS IC Rady/Busy
	DIS/KAND	Digital Image Stabilizer/Sensitivity
	DISCS	Dis Chip Select
	DISP	Display
	DL	Delay Line
	DOBCK	Audio A/D Convertor Bit Clock
	DOCTL	Data Output Control Signal
	DODAT	Serial Data (to D/A Converter)
	DOLRCK	Audio A/D Converter LR Clock
	DOLRCK	L/R Clock (to D/A Converter)
	DOMCK	Audio A/D Converter Master Clock
	DOMCK	Master Clock (to D/A Converter)
	DQ 1-16	Memory Data
	DRAM CAS	D-RAM Colum Address Strobe
	DRAM OE	D-RAM Out Enable
	DRAM RAS	D-RAM Read Address Strobe
	DREC	AV Delayed REC Start Pulse
	DRK	Dark (LPF Switch for Auto Focus)
	DS1, 2	Double Sampling Pulse
	DSF 0-7	Data In/Out for Shaffling Memory
	DSF 0-7	Input/Output Data to Shuffling Memory (18MHz)
	DSP	Digital Signal Processor
	DSP R/B	DSP IC Rady/Busy
	DSP-48K-H	DSP IC Clock Select
	DSTB	Data Stobe Signal
	DSV	Digital Sum Variation
	DV	Digital Video
	DVB	Digital Video Broadcast
	DVC	Digital Video Cassette
	DVDD	Digital VDD
	DVIO	Digital Video Input Output
	DVSS	Digital Ground
	DX	Shift Data for X Direction (for LCD)
	DY	Shift Data for Y Direction (for LCD)
	DY	TFT Y-axis Shift Data
	DZ	Digital Zoom
E	E Snap	Electric Snap Shot
	E ZM	Electric Zoom
	E2 CS or E2P CS	EEPROM Chip Select
	E2 R/B	EEPROM Rady/Busy
	E2P	EEPROM
	EARP	Earphone
	EC	Torque Control
	ECC	Error Correction Cording
	ECM	Electric Condencer Mic
	ECR	Reference Voltage for Capstan Torque
	EDA	Error Correction, DCI, ATF Servo
	EE CS	EEPROM Chip Select
	EE R/B	EEPROM Read (H)/Busy (L)
	EEPROM	Electric Erasable Programable Read Only Memory
	EIS	Electric Image Stabilizer (DIS)
	EMP	A/D Convertor Emphasis Control
	ENAB	Enable
	ENV	Enverope
	EOB	End of Block

	INITIAL/LOGO	ABBREVIATIONS
	EQ	Equalizer
	EVF	Electric View Finder
	EXT DC	External DC (AC Adaptor)
	EXT DC(H)	AC Adaptor DC (H)
	EXT NOREG	AC Adaptor 6V
	EXT S DATA	Serial Data for Edit
	EXT SCK	Serial Clock for Edit
	EZOOM	Electric Zoom
F		
	F ENC	Lens F-Value
	FACT MODE	Factry Mode (not used in the service)
	FB	Feed Back
	FC	Saw Tooth Signal In
	FCK	Clock
	FCO	Saw Tooth Signal Generator
	FENC	Focus Encoder
	FEND	Frame End Pulse
	FH2B	FH/2 (15.625KHz / 2=7.8125KHz)
	FIX OSD	Auto Tracking Off (H)
	FLICK	Flicker Output
	FM	Field Memory
	FM0-7	Field Memory 0-7
	FMCO0-3	Field Memory Chrominance Out 0-4
	FMDIR	Focus Motor Direction
	FMOEM	Field Memory Enable
	FMOEO	Field Memory Enable
	FMT1-4	Focus Motor Terminal 1-4
	FMY00-07	Field Memory Luminance Out 0-7
	FMYI0-07	Field Memory Luminance In 0-7
	FNO	F Value
	FPS	Frame Refference Signal
	FR	Capstan Reverse High
	FRP	Frame Refference Pulse
	FRPSO	Frame Start Pulse
G	G1, G2, G3	Gap 1, 2 and 3
	GCA	Gain Control AMP
	GCNT	Gain Control
	G-CNT	AGC Adjustment
	GCTRL	Gain Control
	GENE	Generator
	GF	FG AMP Terminal
	GSW	Ground for Switching Power
H	H/M/N	Hi-Fi / Mix / Normal
	H/N	Hi-Fi / Normal
	H1, 2	H. CCD Drive Pulse
	HAP	Horizontal Aperture
	HASW	Head AMP Switching Pulse
	HB	Hall Bias
	HBR SET	High Brightness Set
	HBRST	High Brightness Set
	HCLR	High Clear
	HCP	Shift Clock for Horizontal Drive
	HD	Horizontal Drive Pulse
	HDTV	High Definition TV
	HEX	Hexadecimal
	HG	Hall Gain
	HID	Head Switching Pulse
	HLT	High Bright Signal
	HALL IN(+), (–)	Input Signal from Hall IC
	HP	Headphone
	HPF	High Pass Filter
	HSE	Modulated Data Output
	HSP	Timing Pulse for Shaffling Memory
	HSS	Horizontal Sync Signal
	HSW	Head Switching Pulse
	HS-WT	High Speed Zoom
	HSZ	High Speed Zoom
I	I/F	Interface
	I-2 C	Inter Integrated Circuit
	ID(H)	Wide Television (H)
	IMP	Inter Microprocessor Protocol
	INF	CCD Input Signal 1
	INF	Input Frame Signal
	INS	CCD Input SIgnal 2
	INTER	Interval Recording
	INV	Inverter
	IOU	R-Y Analogue Signal Output
	IOV	B-Y Analogue Signal Output
	IOY	Y Analogue Signal Output
	IR	Infrared Rays
	IRDET	Imfrared Ray Detection
	IREF	Current Adjustment Terminal
	IRIS/SH	Iris / Shutter Control
	IRQ	Interrupt Request
	ITI	Insert & Track Information
J	JPEG	Joint Photographic Image Cording Experts Group
K	KANDO	Digital Gain Up
	KB	Carrier Balance
	KEY IN	Key Scan
	KND	Digital Gain Up
	KNEE	Luminance Compensate
L	LCD	Liquid Crystal Display
	LCD P(L)	LCD Power On (L)
	LD	Load Pulse
	LDD	Liquid Direct Drive
	LEDCNT	LED Control
	LI-BATT	Lithium Battery
	LOAD	Loading
	LOAD F, R	Loading Direction (F: Forward / R: Reverse)
	LPF	Low Pass Filter
	LRMONO	Monoral Audio (L + R)
	LSB	Least Significant Bit

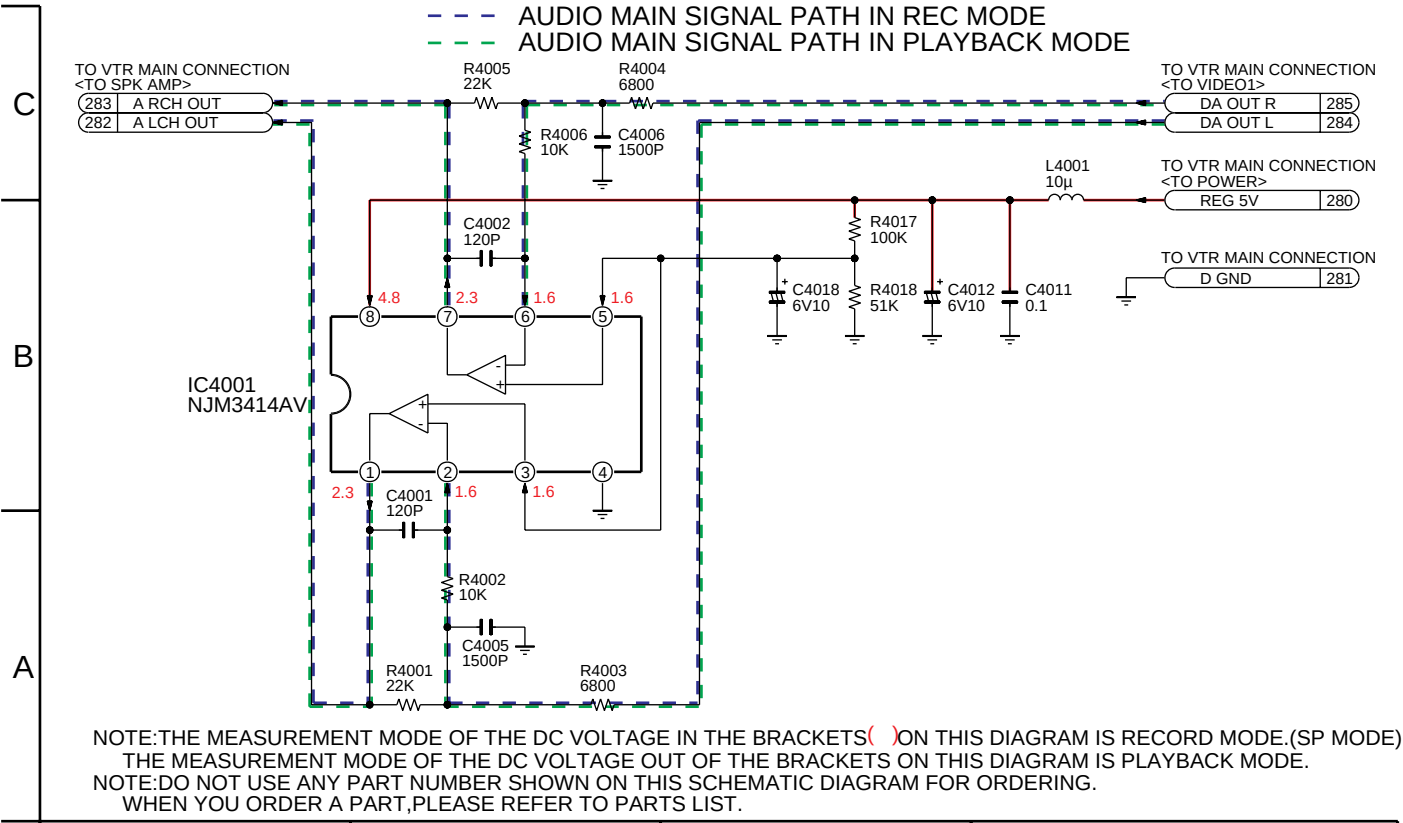
INITIAL/LOGO		ABBREVIATIONS
	LVL	LPF Switch for Auto Focus
M	M1-3	Motor Coil Terminal 1 to 3
	MA0-5	Microprocessor Address Data 0-5
	Mbps	Megahertz Bit Per Second
	MD	Modulation
	MD0-7	Microprocessor Data 0-7
	MDT0-7	Microprocessor Data 0-7
	ME (TAPE)	Metal Evaporated (Tape)
	MENB	Focus Motor Enable
	MFF	Manual Focus Far
	MFN	Manual Focus Near
	MHSYNC	Monitor Horizontal Sync Signal
	MIC	Memory In Cassette
	MIG	Meta In Gap
	MIX N.R.D.	Non Rec Data Mix
	MOD	Modulation
	MOUT	Mic Out
	MP (TAPE)	Metal Particle (Tape)
	MPEG	Moving Picture Image Cording Experts Group
	MPEG2	Moving Picture Image Cording Experts Group Phase 2
	MRST	Focus Motor Reset
	MSB	Most Signal Bit
	MVSYNC	Monitor Vertical Sync Signal
N	N/F	Near/Far Focus
	N/P	NTSC/PAL
	NB1-3	Base for NPN Transistor
	NC	No Connection
	NC1-3	Corrector of NPN Transistor
	NCLR	Power On Reset
	NCP1	Clamp Pulse
	NCP2+VDH	Clamp Pulse + Horizontal Drive Pulse
	NCP2+VDM	Clamp Pulse + Gate Pulse
	NDE	Non Liner De-Emphasis
	NE	Emitor of NPN Transistor
	NLE	Non Liner Emphasis
	NR	Noise Reduction
	NRD	Non Rec Data
	NRD BLK	Non Rec Data Blanking
	NRD CLK	No Rec Data Clock
	NRE	Read Enable Input (Low Active)
	NWE	Write Enable (Low Active)
O	OB	Optical Black
	OBCNT	Optical Black Control
	OBREF	Reference Voltage for Optical Black Control
	OE	Output Enable
	OFH	Horizontal Counted Down Clock Signal (Reference)
	OFS	Offset
	OP	Operation AMP Output
	OSD	ON Screen Display
	OVL	Overlap Pulse
	OZ	Optical Zoom

INITIAL/LOGO		ABBREVIATIONS
P	P SW	Power Switch
	PB1-3	PNP Base 1-3
	PBCTL	Play Back Control
	PBCTL	Pre-Branking Control
	PBH	Head Amp Switch
	PBLK	Pre-Blanking (Pulse)
	PC1-3	Corrector of PNP Transistor
	PCBM	Carrier Balance
	PCH	Phase Compensator (Hall AMP)
	PCI	Phase Compensator (Current)
	PCO	Phase Compensator Out
	PCS	Switching Power Control
	PCV	Phase Compensator (Voltage)
	PE	Emitter of PNP Transistor
	PED	Pedestal
	PEDECNT	Pedestal Control
	PENO	Alarm (L)
	PFP	Pilot Frame Position
	PGA, B	Power Ground A, B
	PGC	Pulse Generator Comparator
	PGI	Pulse Generator Input
	PGMM	Pulse Generator Monostable Multivibrator
	PGO	Output of Pulse Generator AMP
	PMODE	Select Signal for Normal / Wide Screen
	PON	Power On
	POR	Power On Reset
	POSCOM	Common Position
	PREAMP	Pre-AMP
	PREBLK	Pre-Blanking
	PT	Protect for V Voltage
	PWM	Pulse Width Modulation
	PWMB	Pulse Width Modulation Pulse
Q	Q2H	Source Output Select
R	R CTL P	Recorded Control Pulse (+)
	R CTL R	Recorded Control Pulse (–)
	R/B	Read/Busy
	R/L	Direction Control for Data Transmition
	RA	Recording AMP
	RA1	Rec AMP 1
	RAC AC	Rec Audio Current
	RAD	Read Address Data
	RAE	Read Address Enable
	RB	Read Busy
	R-B	R Bias
	RCB	R Carrier Balance
	RE	Read Enable
	RE(F), (S)	Rotary Erase Head Transformer
	REB	R Bias
	REC CC	Rec Current Control
	REC CCNT	Rec Current Control
	RECCTRL	Recording Control Pulse
	RECI	Rec Amp Switch

	INITIAL/LOGO	ABBREVIATIONS
	RENCF	Lens Control (Forward)
	RENCR	Lens Control (Reverse)
	RERASE	Rotary Erase Head
	RGBIV1-2	1V Inverted Signal 1-2
	RGO R/G OFF	Offset Voltage for AWT R
	RSF	Capstan Direction (Reverse / Stop / Forward)
	RST	Reset
	RSTB	R Strobe
	RSTPWD	Reset Power Down Input
	RSTR	Reset Read
	RSTW	Reset Write
	RT	Saw Tooth Terminal
	RVCO	Resister for Oscillation
	RW	Read Write
	RWAE	Read Write Enable
S	S PHOT	Supply Photo Transistor
	S/H	Sampling Hold
	S/S	Start/Stop
	SBD	Serial Data
	SBI	Serial Data Input
	SBO	Serial Data Output
	SBT	Serial Clock
	SCAN0-5	Key Scan 0-5
	SCK	Serial Clock
	SCR	Search
	SCR, S.C.R.	Still Cue Review
	SEG.	Segment
	SET	White Balance Set
	SH/IRIS	Shutter/Iris Control
	SHIFT	Capasitor for Phase Shift
	SI	Serial Data Input
	SIC	Shift In Clock Input
	SIOC	Serial In/Out Control
	SMCE	Shaffling Memory Chip Enable
	SMRS	Shaffling Memory Read Strobe
	SMWE	Shaffling Memory Write Enable
	SMWS	Shaffling Memory Read Strobe
	SNAP	Snap Shot
	SNS LED	Sensor LED
	SO	Serial Data Output
	SPA	ATF Smapling Pulse
	SPEN	8 Bit Shift Register Enable
	SPK	Speaker
	SPO	Reset for Switcing Power
	SPST	8 Bit Shift Register Strobe
	SREELP	Supply Reel Pulse
	SRT	Start
	SSA	Start Sync block Area
	SSW	Select Signal for Low Pass Filter
	ST5V	Safety Tab 5V
	STAB	Safety Tab Switch
	STB	Stand by Signal
	STB	Strobe
	SWB	Switching Pre-Drive Pulse
	SYL EC	Cylinder Torque Control
	SYL FG	Cylinder FG
T	T PHOT	Take-up Photo Transistor
	TBC	Time Base Conntrol
	TFT	Thim Film Transistor
	TH	Thermostat for Battery
	TI	Test Mode Select
	TL	Torque Limit
	TM	Sub Code
	TMD	Sub Code Data
	TRE	Tracking Error Signal
	TREEL(P)	Take-up Reel (Pulse)
	TRFIX	Tracking Fix
	TRIWAVE	Tracking Wave
	TRP	Tracking Position
	TRP	Trap
	TSR	Head Switching Refference
	TST	Time Scale Transfer
U	U/V SEL	R-Y/B-Y Select Signal
	UNLOAD	Un-Loading
	UNRE	Microprocessor Read Enable
	UNWE	Microprocessor Write Enable
	UV	R-Y/B-Y
	UV SEL	R-Y/B-Y Select Signal
V	V1-V4	V. CCD Drive Pulse
	VB	VH Filter Switching
	VCE	Power Terminal
	VCNTL	Video Control
	VCO	Voltage Control Oscillator
	VCP	Shift Clock Output for Vertical Drive
	VCTLD	Video Control
	VCTRL	Voltage Charge Control
	VD	Vertical Drive Pulse
	VDDX	X Drive Power for Colour LCD
	VDDXY	XY Drive Power for Colour LCD
	VDDY	Y Drive Power for Colour LCD
	VDREC	Video Delayed Rec
	Vgg	Voltage for Gate IC
	Vgl	Gate off Voltage
	VID	Video Signal Out
	VIN	Video In
	VITC	Vertical Interval Time Code
	VITERBI	One of Signal Detection Method
	VL	Low Voltage
	VLC	Variable Length Cording
	VLOCKP	Artificial Sync Pulse
	VLP	Artificial Sync Pulse
	VM	Motor Voltage
	VMD	Velocity Mode Data
	VMD1-3	Electric Shutter Mode

	INITIAL/LOGO	ABBREVIATIONS
	VMODE	NTSC/PAL Select Switch
	VMVH	VH Filter Switching
	VORP	Video Overlap
	VRB	Voltage Refference Bottom
	VRBS	Voltage Refference Bottom Output
	VREF1R3V	Refference Voltage 1.3V
	VREF3R3V	Refference Voltage 3.3V
	VREFH	Refference Voltage High Side
	VREFL	Refference Voltage Low Side
	VRI	Refference Voltage Input
	VRO	Refference Voltage Output
	VRT	Voltage Refference Top
	VRTS	Voltage Refference Top Output
	VS	Switching Comparator
	VSS	Vertical Sync Signal
	VSSX	X Driver Power for Colour LCD
	VSSXY	X-Y Driver Power for Colour LCD
W	W/N	Mode Select for Window Mode
	W/N	Wide / Normal
	WAD	Write Address Enable
	WAE	Write Address Enable
	WAERAE	Write Address Enable
	WARI	Interrupt
	WB	White Balance
	WE	Write Enable
	WEM	Memory Write Enable
	WHD	Wide Horizontal Drive Pulse
	WIDE A	Wide Zoom
	WSB	B AGC Control
	WSR	R AGC Control
	WTV	Wide TV
X	XP	FG Logic Reset
Y	Y FM0-7	Y Field Memory 0-7
	YCE	Cylinder Error Code
	YGC	Y Gain Control
	YMO 0-7	Y Field Memory 0-7
	YNCST	Noize Canceller
	YNR	Luminance Noise Reduction
	YSDP 0-7	Digital Y Out 0-7
Z	Z.ENC	Zoom Encoder
	Z.MIC	Zoom Mic
	ZENC	Zoom Encoder Output
	ZMDIR	Zoom Drive
	ZMEN	Zoom Enable
	ZMT	Zoom Motor Tele Side
	ZMT (+)/(–)	Zoom Motor (+)/(–)
	ZMTER	Zoom Motor Tele Side
	ZMW	Zoom Motor Wide Side
	ZSW	Zoom Switch

	INITIAL/LOGO	ABBREVIATIONS



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

C B A

1 2 3 4

FRONT/MIC SECTION

MIC

ECM(LR)
ECM(RF)
EMM(RR)
ECM(LF)

FP4803 5
FP4803 2
FP4803 1
FP4803 4

IC4801

AMP

Q4811 MIC(L) AMP
Q4810 MIC(R) AMP

FP4802 FP4901 5 2
FP4802 FP4901 3 4

Q4702

PS4902 PP4802 22 22
PS4902 PP4802 9 9

IC4501(AUDIO I/F)

RIN1
RIN2
LIN1
LIN2

A OUT R
A OUT L

AUDIO I/F
MCLK
LRCK
BCLK
SDT O
SDT I

IC4001

IC3003(CAS)

DATA IN/OUT
FROM/TO VIDEO
REFER TO VIDEO BLOCK

FSO
FS1
TO IC3005-39,40

QR4002 (A MUTE Ⓛ:OFF)
QR4004 (A MUTE Ⓗ:ON)

SPEAKER AMP/MIC AMP/SOUNDTITLE SECTION

TO J4051 AV OUT

REG 5V

MIC JACK
J4901

Q4903,Q4904 AMP
Q4901,Q4902 AMP

QR4003 (A MUTE Ⓛ:OFF)

IC4201(SPEAKER AMP)

FROM IC2006-15
VR CTL
MUTE
MIX OUT
HP(L) AMP
HP(R) AMP
VR(L)
VR(R)
IN(L)
IN(R)
AUDIO OUT (L)
AUDIO OUT (R)

PS4902 PP4802 11 11
PS4902 PP4802 20 20

SPIN1
SPIN2
SPEAKER AMP
S.OUT(+)
S.OUT(-)

P3001 1
P3001 2
TO SPEAKER

QR4201 (SPK ON Ⓛ:OFF)
SPK ON Ⓛ
PP4901 PP4802 18 18
FROM IC2011-26

SP ON/OFF
SP IN CTL
HP VCC

Q4001 SWITCHING
NOREG
REG 5V

FROM J4051 AV 4P SW2
QR4202 (AV 4P SW2 Ⓛ:OFF)

QR4903 (WIND SW Ⓗ:ON)
QR4904 (WIND SW Ⓗ:ON)

IC4701 SOUND TITLE CTL
DIN
AOUT
Q4703 AMP

Q4701 (MUTE)
QR4203 (ST ON Ⓛ :OFF

QR4001 (A MUTE Ⓗ:ON)

FROM IC2011-27 PP4802 PP4901 16 16 WIDE SW Ⓗ
FROM IC2011-3 PP4802 PP4901 13 13 S TITLE DI
FROM IC2011-12 PP4802 PP4901 17 17 ST ON Ⓛ
FROM IC2001-68 PP4802 PP4901 12 12 A MUTE

CCD/SENSOR SECTION

IC291
(CCD DRIVER)

PS201 -8V
PS201 -15V
PS201 OUT
PS201 H2
PS201 H1
PS201 R
PS201 SUB
PS201 V1
PS201 V2
PS201 V3
PS201 V4

FROM POWER

FL201
AMP

IC203(CDS/AGC)
S/H
AGC
GAMMA
GAIN
GAIN
AGC D/A CONV.
A.P GAIN
A/D INPUT
DI SCLK LOAD
V Ref.
PWM
HALL BIAS
HALL GAIN

IC301(A/D)
CDS IN
VRT 2.7V
VRB 1.0V
CLK
CAM DATA OUT 10bit

IC201
(V DRIVE)
SUB
V1
V2
V3
V4
CH1
V2
V3
CH2
V4

IC202(CG/SSG)
DS2
DS1
H1
H2
R
V1
CH1
V2
V3
CH2
V4
ADCLK
VD
HD
MCLKD
CLKO
SCLK
SDATA
1/2
CLK

X201
31.5MHz
IC204

PROCESS SECTION

IC302(CAMERA DSP)
Y/C DSP
H.ZOOM D/D
VERTICAL ZOOM
SIS
AF
SSG1
VD
HD
DSP µ CON I/F

DIGITAL Y OUT
TO VIDEO1(IC3001 110-117)
DIGITAL C OUT
TO VIDEO1(IC3001 99-106)
PLAYBACK Y IN
FROM VIDEO1(IC3001 89-96)
PLAYBACK C IN
FROM VIDEO1(IC3001 78-81)
PBVD
PBHD
INH
INV
DDFCK
VTR 45M
FROM/TO VIDEO (REFER TO VIDEO BLOCK)

IC303
(AF/DIS/DSP µ CON)
ADDRESS IN/OUT
DATA IN/OUT

IC304(F/M)
Y DATA IN
C DATA IN
Y DATA OUT
C DATA OUT

IC308
(EEPROM)
CS
CK
SO
SI
R/B
E2PCS
E2P/DASBT
E2P/DASBI
E2P/DASBO
READY/BUSY
DACLD

OPERATION

CAMERA OPERATION UNIT
PORTRAIT
SPORTS
MANUAL
LOW LIGHT
AUTO
PROGRAM AE

MENU OPERATION
SHUTTER/IRIS/PUSH/ VOL/JOG
S6901
MENU

MODE 1
MODE 0
MODE 2
MENU
ENC+
ENC SW
ENC-
AF/MF
WB
IR DET
MFL1
MFL2

FP303
FP6803
FP6401

LENS DRIVE SECTION

IC706
IC711
Q701
AMP
HALL IN(-)
HALL IN(+)
HALL OUT(+)
HALL OUT(-)
HALL SENSOR
CAM 3V
ALC MAIN
QR701
ENC LED SW
ZOOM LENS
IRIS
FOCUS LENS

IC702(F MOTOR DRIVE)
DRIVER1
DRIVER2
DRIVER3
DRIVER4
RESETM
ENABLE
CK1
CW/CCW
FOCUS RST
FOCUS EN
FOCUS DIR
FOCUS CLK

IC701(Z MOTOR DRIVE)
ZOOM CLK
ZOOM DIRECTION
ZOOM ENABLE
ZOOM RESET

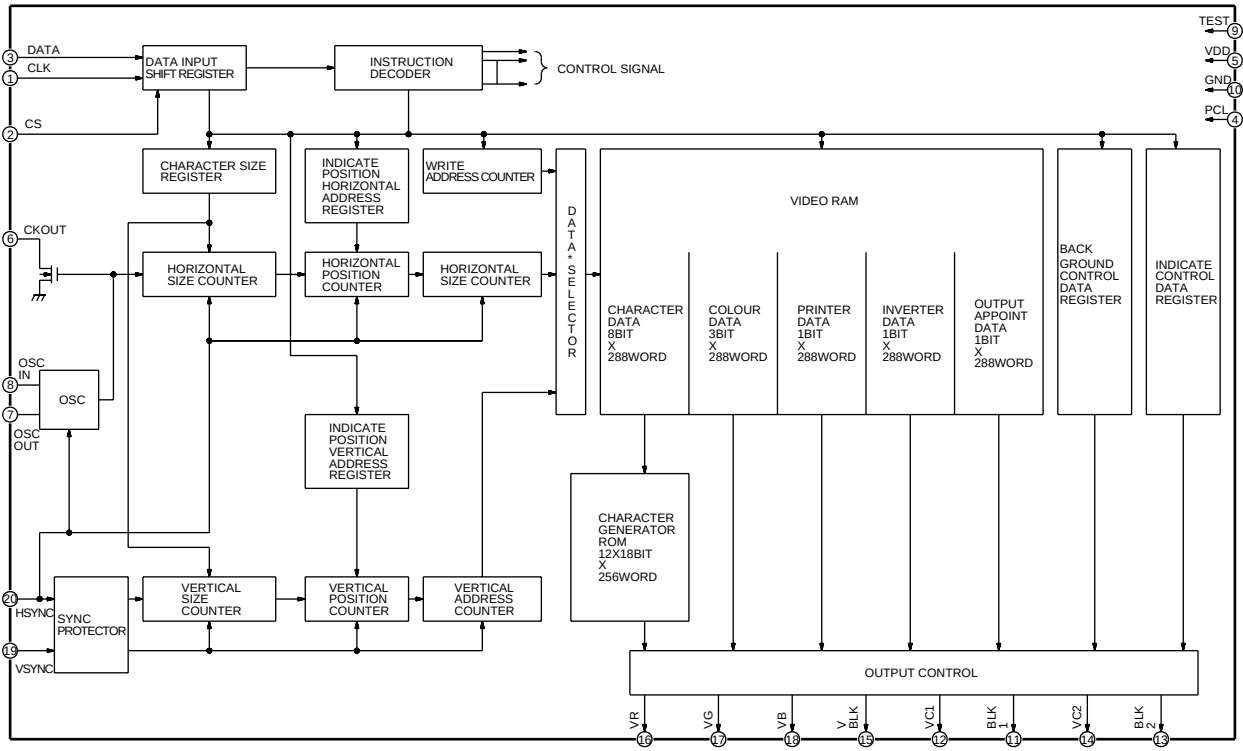
LED CNT
ABSF
ZOOM ENC
OSC1
OSC2
X301
16MHz

IC305
CAM 5V
REG 5V
Q301
AMP
IR DET

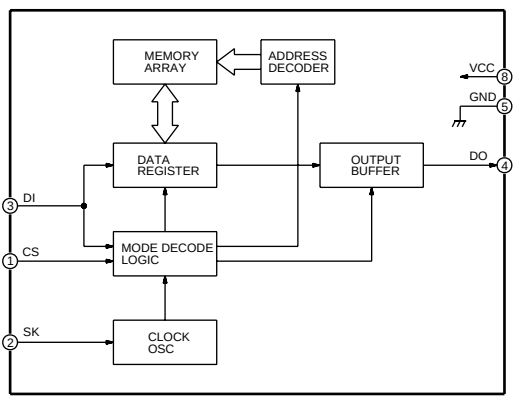
FROM/TO CONTROL
(REFER TO CONTROL BLOCK)
IC2001-58
IC2011-18
REMOTE CTL
TALLY

FRONT/MF RING
S6401
FOCUS
S6402
W.B
D6401
IR SENSOR
IR6401
REMOTE CONTROL RECIEVER
D6402
TALLY
FOCUS RING

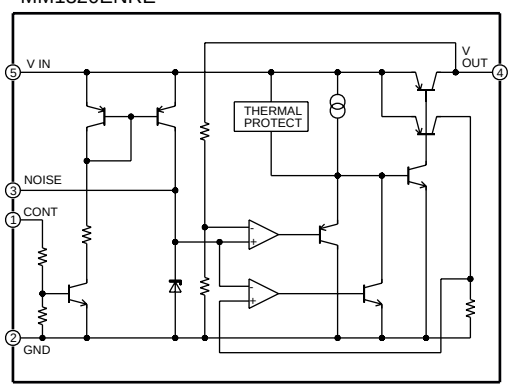
IC2003
µPD6462GS626



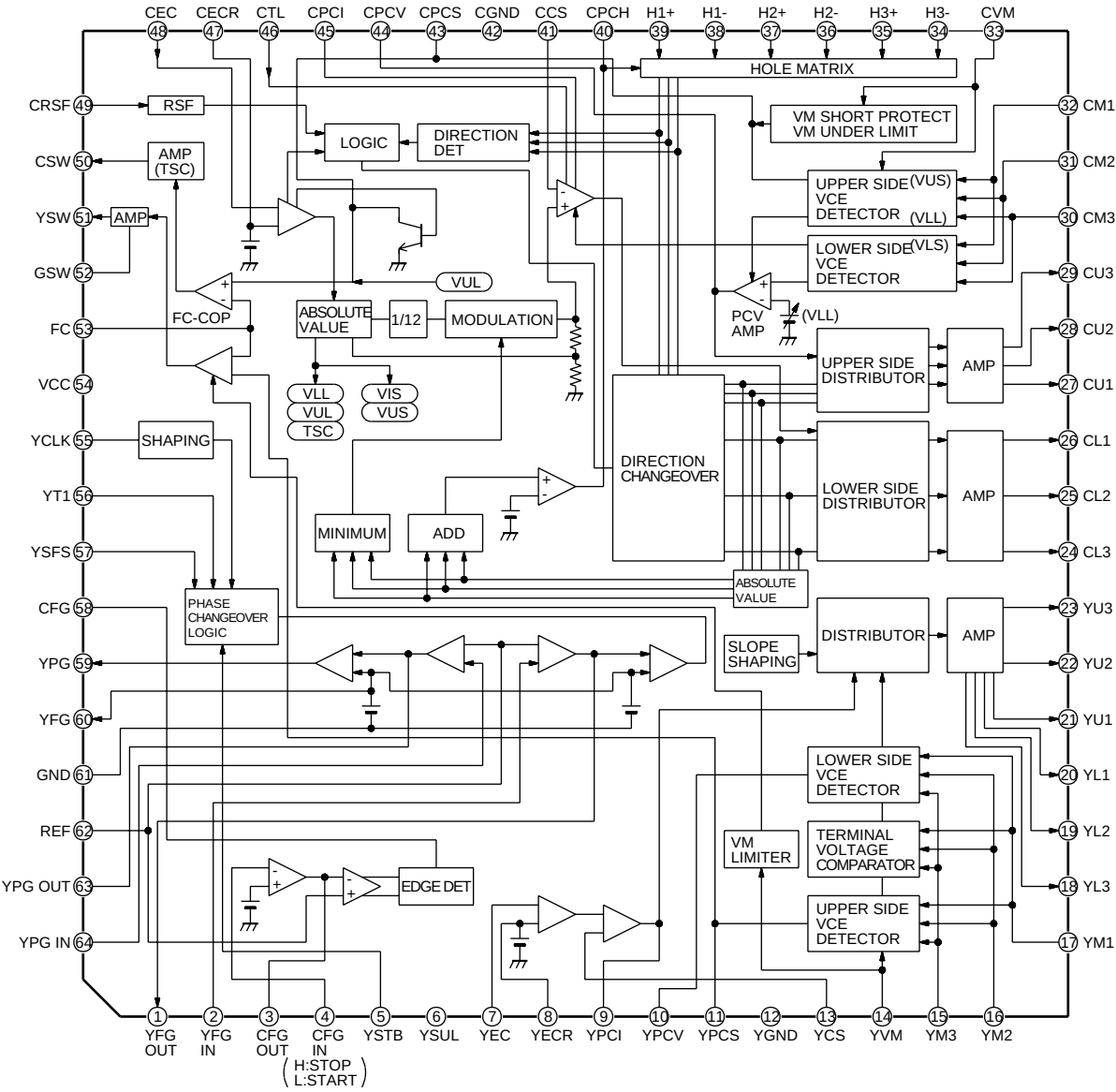
IC2005
S29L330AFS



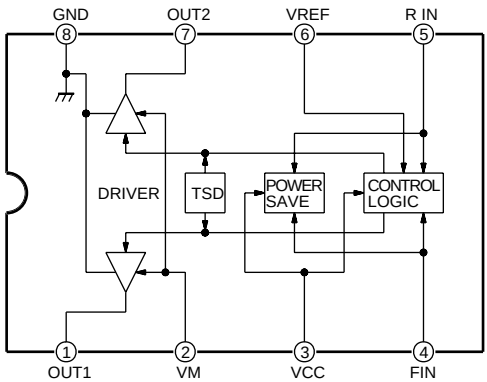
IC2013
MM1320ENRE



IC2201
TB6519FA



IC2207
BA6289F



IC3006 (V.DRIVE)

TO AV JACK S-JACK

FROM IC2006 EVR D/A

FROM IC2003 (CG)

IC3001(DV I/O)

FROM IC2006 (D/A)

IC601 (VIDEO PROCESS FOR MONITOR)

IC602 (VIDEO PROCESS FOR EVF)

FROM IC802-41

FROM IC901-11

IC802 (EVF DRIVER)

FROM IC3001-28

IC901 (LCD DRIVER)

MONITOR LCD PANEL

EVF LCD PANEL

BACK LIGHT

BACK LIGHT DRIVE

FROM POWER

IC604 (EVF ON Ⓛ/LCD ON Ⓗ)

TO EVR

IC2011(PC I/F)

FROM CONTROL IC2001

Q609

Q603 (MONITOR 12V:ON)

Q602 (EVF 12V:ON)

Q610

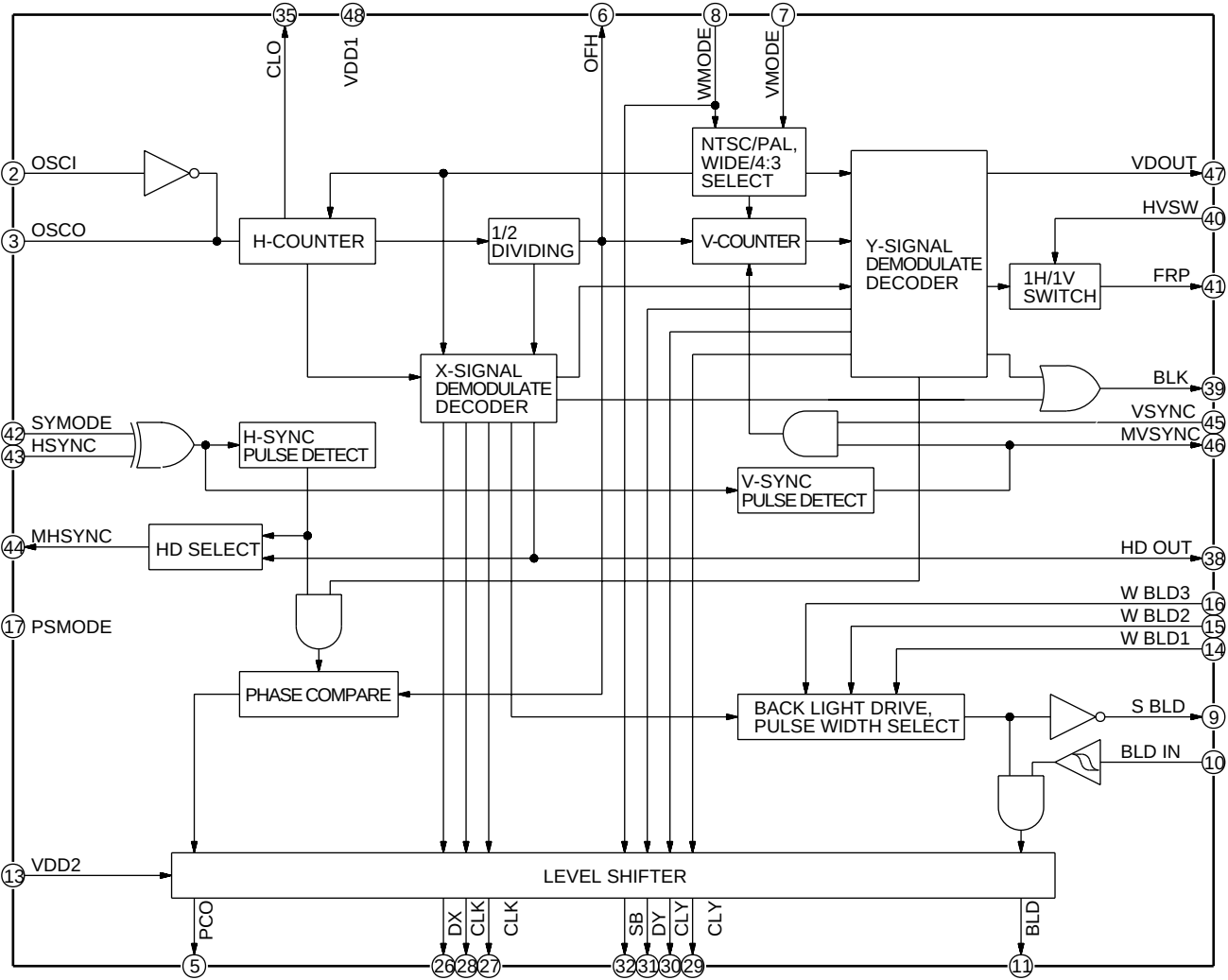
QR601

QR604

Q608 (EVF 5V:ON)

Q601 (EVF 3V:ON)

IC802
ET2070F0C



SENSOR STAGE

CAMERA & VIDEO STAGE

HEAD AMP STAGE

AUDIO STAGE

LENS DRIVE STAGE

DIGITAL I/F STAGE

EVF&LCD MONITOR STAGE

POWER STAGE

SYSTEM CONTROL & SERVO STAGE

LENS

CCD

IC203
CDS/AGC/
EVR

IC201
V-DRIVE

IC202
CG/SSG

X201
OSC
31.5MHz

IC301
A/D

IC302
DSP

10BIT

IC304
FLAME
MEMORY

Y DATA(8BIT)
C DATA(4BIT)

IC3006
VIDEO
DRIVER

V OUT
Y OUT
C OUT

S-VIDEO OUT
AV OUT

DATA IN/OUT
(8BIT)

Y OUT(8BIT)
C OUT(8BIT)

IC3001
DVIO

IC3002
SHUFFLING
MEMORY

IC3005
VCO

X3001
OSC
27MHz

IC3003
COMPRESION
/AUDIO/
SHUFFLE

DATA IN/OUT
(4BIT)

IC3201
ERROR
CORRECTION/
DCI/ATF SERVO

REC DATA

IC5001
HEAD
AMP

DATA OUT
(7BIT)

DATA
(16BIT)

ADDRESS
(9BIT)

ERROR
CORRECTION
CODE MEMORY
IC3202

IC3204
A/D
(BITERBI)

EQ
IC3203

SDTI/SDTO

DATA IN/OUT
(8BIT)

ADDRESS
(4BIT)

VD/HD

TO
PC-EVR
ADJ.

IC702
FOCUS
MOTOR
DRIVE

IC701
ZOOM
MOTOR
DRIVE

IC303
CAMERA
µCON

EEPROM
IC308

DV
TERMINAL

DIGITAL
I/F
IC3801

AUDIO
I/F
IC4501

IC4801
MIC
AMP

ECM

EXT.INPUT

IC4201
SPEAKER
AMP

AV OUT

SPEAKER

IR
SENSOR

CAM DI/DO

ADDRESS/DATA
(16BIT)

IC2005
EEPROM

TO
PC-EVR
ADJ.

IC2006
EVR DAC

ADJ.
DATA
OUT

EVF & LCD MONITOR
STAGE

EE DI

EE DO

IC901
LCD
DRIVER

LCD

IC601
VIDEO
SIGNAL
PROCESS

Y IN
R-Y/B-Y IN

IC802
EVF
DRIVER

EVF

IC602
VIDEO
SIGNAL
PROCESS

R/G/B IN

IC2001
SYSTEM
CONTROL

EDIT Ⓗ

IC2002
TIMER

IC2010
RESET

IC2201
CYLINDER
MOTOR
DRIVE

CYL.FG/PG

D.D
CYLINDER

CAPSTAN
MOTOR
DRIVE

CAP.FG

CAPSTAN
MOTOR

SDI/SDO

IC2003
CHARACTER
GENERATOR

IC2011
PC
I/F
µCON

X2003
(14.748MHz)
OSC

DIGITAL
STILL PICTURE

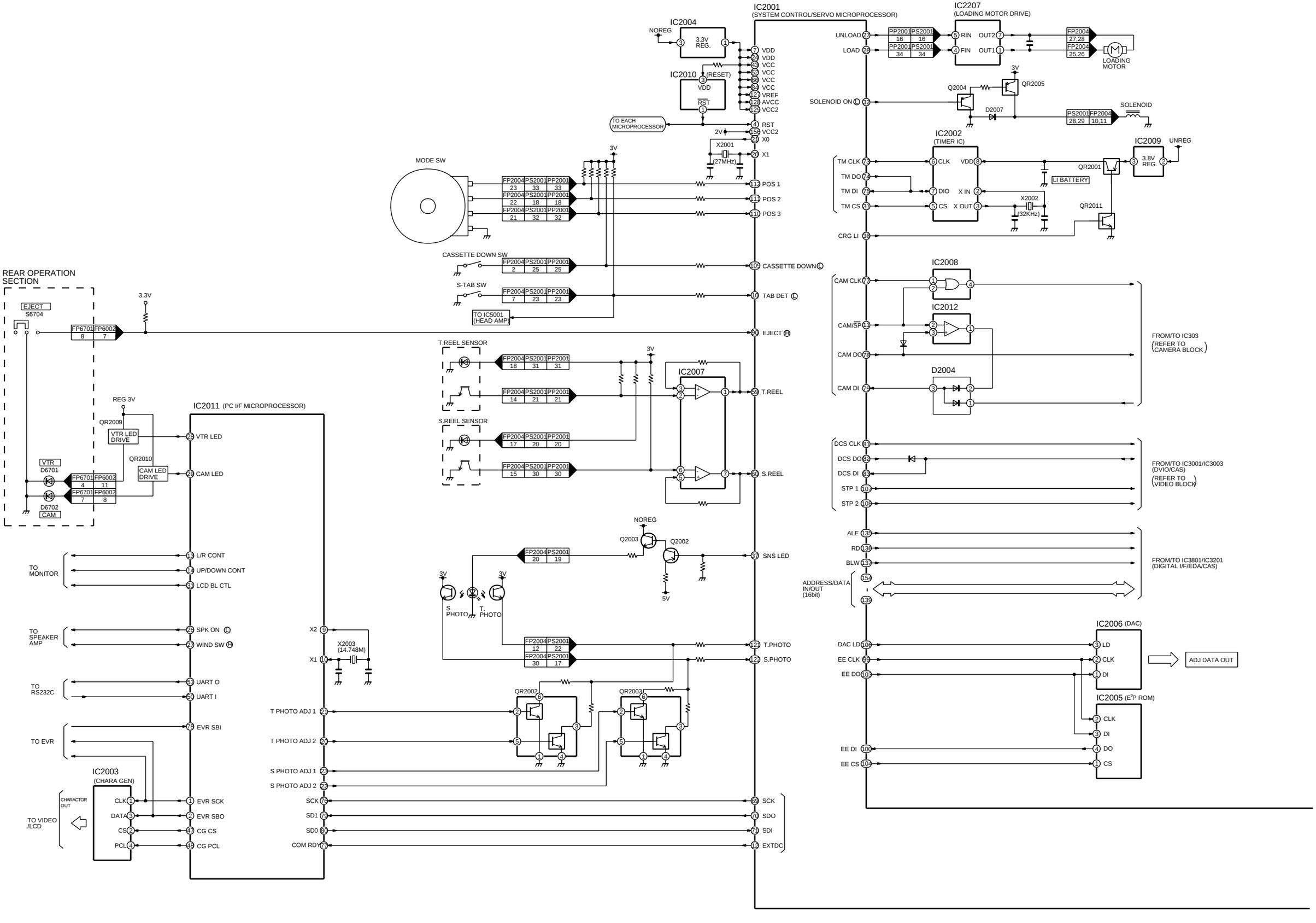
UARTO/UARTI

IC2207
LOADING
MOTOR
DRIVE

LOADING
MOTOR

IC1001
POWER
SUPPLY

- CAM -8/15V
- M -15/3/5/13.5V
- REG 2/3/5V
- CAP/CYL VM
- LCD 12V
- DIF 3V
- NOREG(BATTERY CATCHER)


REAR OPERATION SECTION
EJECT S6704
3.3V
FP6701 FP6002 8 7
REG 3V
QR2009
VTR LED DRIVE
QR2010
CAM LED DRIVE
VTR D6701
D6702 CAM
FP6701 FP6002 4 11
FP6701 FP6002 7 8
IC2011 (PC I/F MICROPROCESSOR)
28 VTR LED
29 CAM LED
TO MONITOR
13 L/R CONT
14 UP/DOWN CONT
31 LCD BL CTL
TO SPEAKER AMP
26 SPK ON L
27 WIND SW H
TO RS232C
51 UART O
50 UART I
79 EVR SBI
TO EVR
IC2003 (CHARA GEN)
CHARACTOR OUT
TO VIDEO /LCD
CLK 1
DATA 3
CS 2
PCL 4
1 EVR SCK
2 EVR SBO
47 CG CS
48 CG PCL
X2 9
X1 10
X2003 (14.748M)
T PHOTO ADJ 1 21
T PHOTO ADJ 2 20
S PHOTO ADJ 1 23
S PHOTO ADJ 2 22
SCK 76
SD1 79
SD0 80
COM RDY 77
IC2004
NOREG
3.3V REG.
IC2010
(RESET)
VDD
RST
TO EACH MICROPROCESSOR
2V
X2001 (27MHz)
3V
MODE SW
FP2004 PS2001 PP2001 23 33 33
FP2004 PS2001 PP2001 22 18 18
FP2004 PS2001 PP2001 21 32 32
CASSETTE DOWN SW
FP2004 PS2001 PP2001 2 25 25
S-TAB SW
FP2004 PS2001 PP2001 7 23 23
TO IC5001 (HEAD AMP)
IC2001 (SYSTEM CONTROL/SERVO MICROPROCESSOR)
7 VDD
24 VDD
45 VCC
52 VCC
69 VCC
94 VCC
127 VREF
128 AVCC
129 VCC2
4 RST
150 VCC2
21 X0
20 X1
112 POS 1
111 POS 2
110 POS 3
109 CASSETTE DOWN L
10 TAB DET L
34 EJECT H
T.REEL SENSOR
S.REEL SENSOR
FP2004 PS2001 PP2001 18 31 31
FP2004 PS2001 PP2001 14 21 21
FP2004 PS2001 PP2001 17 20 20
FP2004 PS2001 PP2001 15 30 30
IC2007
59 T.REEL
84 S.REEL
NOREG
Q2003
Q2002
FP2004 PS2001 20 19
37 SNS LED
5V
S. PHOTO
T. PHOTO
FP2004 PS2001 12 22
FP2004 PS2001 30 17
121 T.PHOTO
122 S.PHOTO
QR2002
QR2003
IC2207 (LOADING MOTOR DRIVE)
UNLOAD 27
LOAD 28
PP2001 PS2001 16 16
PP2001 PS2001 34 34
5 RIN
4 FIN
OUT2 7
OUT1 1
FP2004 27,28
FP2004 25,26
LOADING MOTOR
SOLENOID ON L 32
Q2004
QR2005
D2007
PS2001 FP2004 28,29 10,11
SOLENOID
IC2002 (TIMER IC)
TM CLK 73
TM DO 74
TM DI 75
TM CS 31
6 CLK
7 DIO
5 CS
VDD 8
X IN 2
X OUT 3
X2002 (32KHz)
IC2009
UNREG
3.8V REG.
QR2001
LI BATTERY
QR2011
CRG LI 30
IC2008
IC2012
CAM CLK 77
CAM/SP 11
CAM DO 78
CAM DI 79
FROM/TO IC303 (REFER TO CAMERA BLOCK)
D2004
DCS CLK 81
DCS DO 82
DCS DI 83
STP 1 107
STP 2 108
FROM/TO IC3001/IC3003 (DVIO/CAS) (REFER TO VIDEO BLOCK)
ALE 135
RD 136
BLW 137
154
139
ADDRESS/DATA IN/OUT (16bit)
FROM/TO IC3801/IC3201 (DIGITAL I/F/EDA/CAS)
IC2006 (DAC)
DAC LD 106
EE CLK 99
EE DO 103
LD 3
CLK 2
DI 1
ADJ DATA OUT
IC2005 (E2P ROM)
EE DI 100
EE CS 104
CLK 2
DI 3
DO 4
CS 1

CAPSTAN SERVO SPEED LOOP ⇨ CAPSTAN SERVO PHASE LOOP ■➡ CYLINDER SERVO SPEED LOOP ▫⇨ CYLINDER SERVO PHASE LOOP

REAR OPERATION SECTION

POWER ON/OFF
S6701
FP6701 3
QR2007
IC2014
89 P OFF (H)
97 POWER SW

CONTROL SECTION

DRIVE SECTION

IC2201 (CYL/CAP DRIVE)

FROM/TO POWER
117 BATT REF
119 BATT (SW UNREG)
115 IN BATT (H)
29 POWER ON (H)
67 CCD ON (H)

MONITOR

IC991 HALL IC(LOWER) FP905 4
LCD OPEN (H)
HALL VCC
Q902 RVS (H):ON
Q901 LCD OPEN (H):ON
Q903 RVS (L):OFF
IC992 HALL IC(UPPER) FP905 1
FP904 FP602 3 20 SCAN 1
FP904 FP602 5 18 LCD OPEN
FP904 FP602 4 19 LCD RVS
25 SCAN 1

PHOTO-SHOT REAR OPERATION SECTION

PHOTO SHOT FP6702 2 / FP6702 1
START/STOP
S6702
S6703 CAM/VCR
FP6701 FP6002 13 2
FP6701 FP6002 6 9
FP6701 FP6002 5 10
FP6701 FP6002 14 1
FP6701 FP6002 12 3
26 SCAN 2
47 SCAN 3
48 SCAN 4

TOP OPERATION SECTION

S6806 PAUSE
S6801 STOP/FADE
S6804 PLAY/BLC
S6802 REW/SER(-)
S6803 FF/SER(+)
FP6801 FP6001 7 7
FP6801 FP6001 6 6
FP6801 FP6001 5 5
FP6801 FP6001 4 4
FP6801 FP6001 3 3
FP6801 FP6001 1 1
FP6801 FP6001 2 2
14 KEY IN 1
15 KEY IN 2
16 KEY IN 3
17 KEY IN 4

MIC SW
FP2004 PS2001 5 27
FP2004 PS2001 4 24
FP2004 PS2001 3 26
98 MIC CLK
97 MIC DATA
3V
Q2001
44 MIC ON (L)
126 MIC AD 1
125 MIC AD 2
124 MIC AD 3

CYLINDER DRIVE CLOCK 96
CYLINDER ON (L) 94
CYLINDER FG 54
PP2001 PS2001 38 38
PP2001 PS2001 37 37
PP2001 PS2001 40 40
DRIVE CLOCK 55
CYLINDER ON (L) 5
FG 64
ACTIVE COIL SWITCHING LOGIC
SLOPE ADDITION
FG AMP COMPARATOR

CYLINDER ERROR 92
PP2001 PS2001 15 15
CYLINDER ERROR 7

TO VIDEO
PP2001 PS2001 39 39
PG 53
PG AMP COMPARATOR

FROM VIDEO (REFER TO VIDEO BLOCK)
TSR 56 IC3201-97
HID 57 IC3201-93
SPA 61 IC3201-96
FRP 60 IC3001-58

3V
54 VCC

CAPSTAN R(H)/S(M)/F(L) 51
PP2001 PS2001 14 14
CAPSTAN ERROR 93
PP2001 PS2001 36 36
TORQUE LIMIT 90
PP2001 PS2001 35 35
CAPSTAN R/S/F
CAPSTAN ERROR
TORQUE LIMIT

3V IC2205
CECR 47
FG 58
FG AMP COMP.

CAP FG 55
PP2001 PS2001 13 13
IC2206

IC2204
IC2205
VREF

TRANSISTOR SATURATION DETECTOR
DRIVE CLOCK
CYLINDER ON (L)
FG
DRIVE TRANSISTOR CONTROL
YM3 15
YM2 16
YM1 17
YVM 14
YU1 21
YU2 22
YU3 23
YL1 20
YL2 19
YL3 18
YCS 13
R2208 R2209

FROM POWER
CYL VM
PP302 PS3002 PP2001 PS2001
37,38 37,38 5,6 5,6
IC2202 (CYLINDER DRIVE TR.)

DD CYLINDER MOTOR
FP2003 4,5 < MAIN COIL 1 >
FP2003 8,9 < MAIN COIL 2 >
FP2003 1,2 < MAIN COIL 3 >

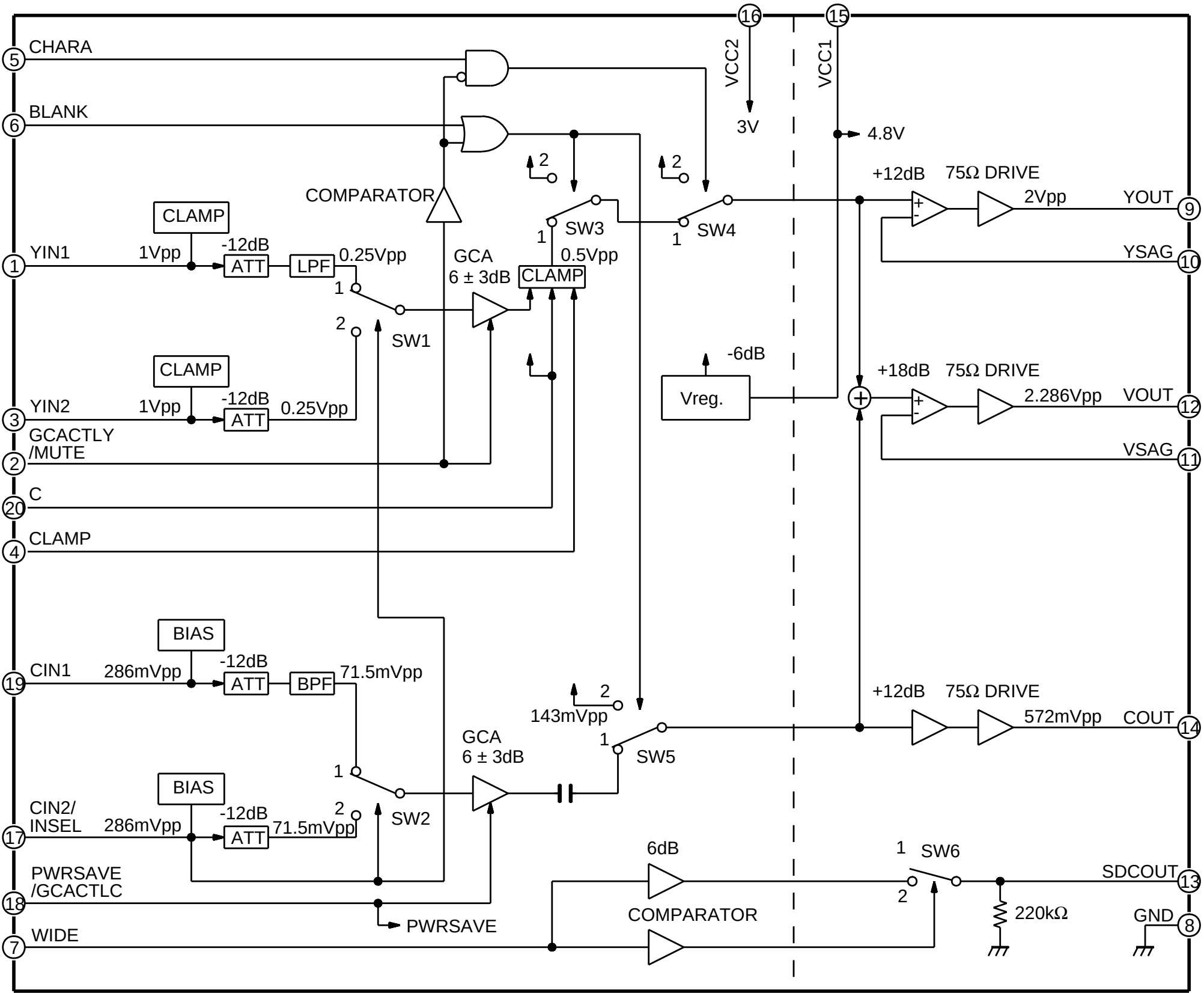
YFG IN 2
YPG IN 64
FP2003 7 FG
FP2003 3 PG

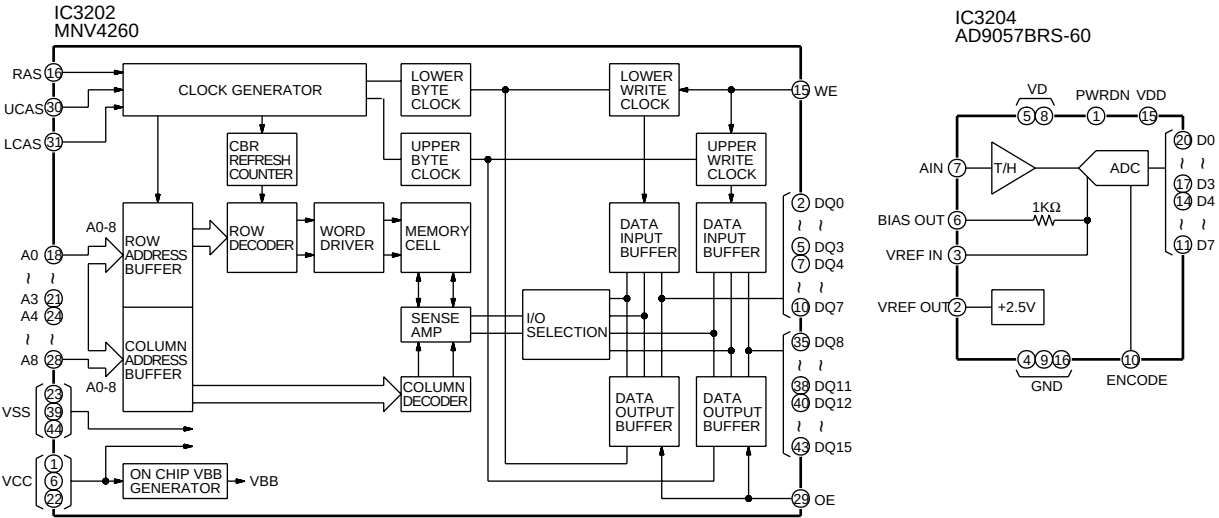
TRANSISTOR SATURATION DETECTOR
FROM POWER
CAP VM
PP302 PS3002 PP2001 PS2001
33,34 33,34 11,12 11,12
IC2203 (CAPSTAN DRIVE TR.)
CVM 63
CU1 27
CU2 28
CU3 29
CL1 26
CL2 25
CL3 24
CCS 41
R2212

DIRECTION LOGIC
DIRECTION DETECTOR
DIRECTION SWITCHING
DRIVE TRANSISTOR CONTROL
MATRIX
LIMITER
CFG OUT 3
CFG IN 4

DD CAPSTAN MOTOR
FP2002 1,2 MAIN COIL 1
FP2002 15,16 MAIN COIL 2
FP2002 17,18 MAIN COIL 3
5V
FP2002 19 FG
FP2002 20
FP2002 4
FP2002 9
FP2002 14
HALL IC1
HALL IC2
HALL IC3
H1+ 39
H1- 38
H2+ 37
H2- 36
H3+ 35
H3- 34
FP2002 8
FP2002 10
FP2002 13
FP2002 11
FP2002 3
FP2002 5
FP2002 6
FP2002 7
FP2002 12
FP2002 22 FG

IC3006
NJM2538V

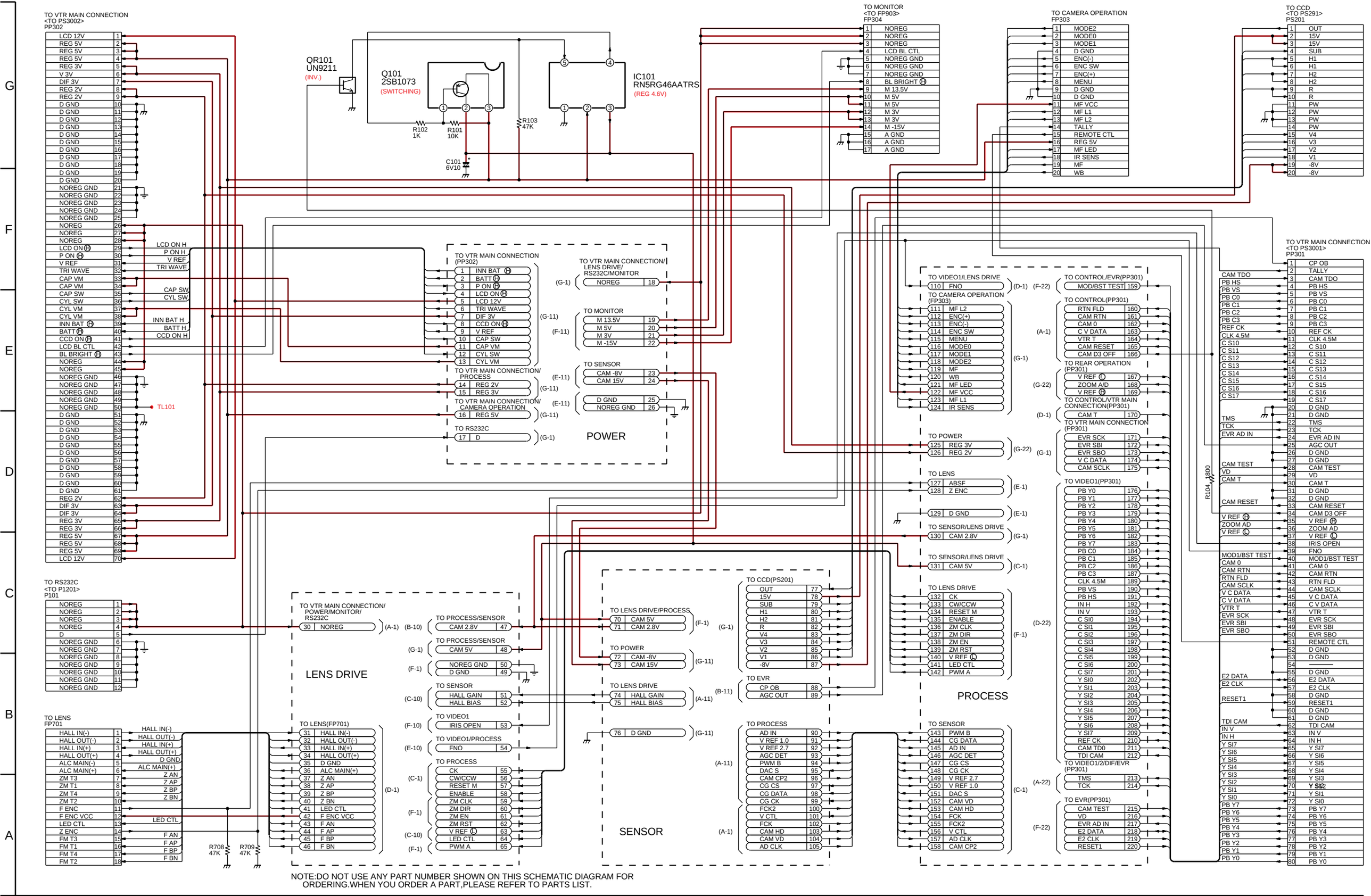


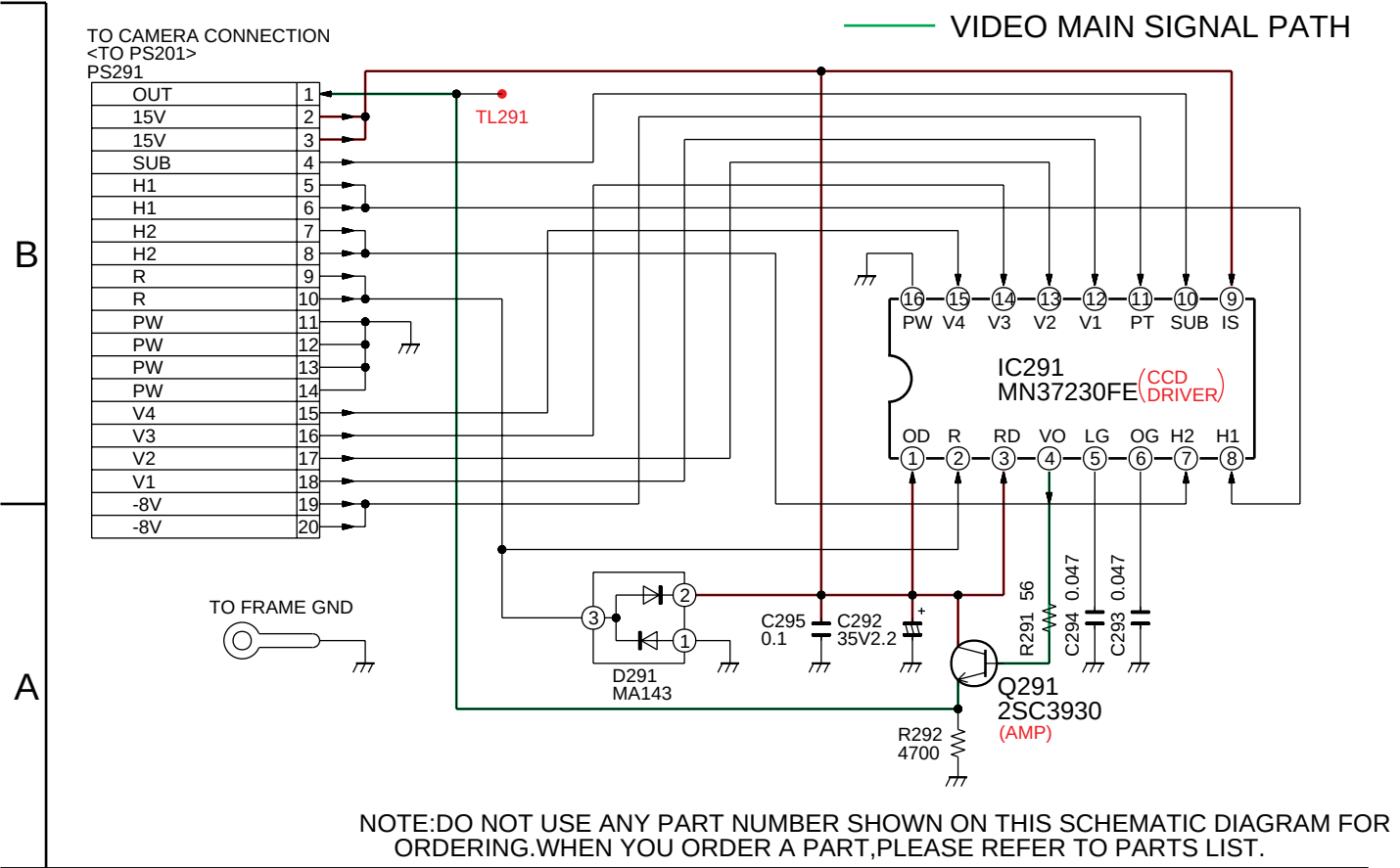

IC3202
MNV4260
RAS 16
UCAS 30
LCAS 31
CLOCK GENERATOR
LOWER BYTE CLOCK
UPPER BYTE CLOCK
CBR REFRESH COUNTER
LOWER WRITE CLOCK
UPPER WRITE CLOCK
15 WE
A0-8
A0 18
A3 21
A4 24
A8 28
ROW ADDRESS BUFFER
COLUMN ADDRESS BUFFER
ROW DECODER
WORD DRIVER
MEMORY CELL
SENSE AMP
COLUMN DECODER
I/O SELECTION
DATA INPUT BUFFER
DATA OUTPUT BUFFER
2 DQ0
5 DQ3
7 DQ4
10 DQ7
35 DQ8
38 DQ11
40 DQ12
43 DQ15
29 OE
VSS 23 39 44
VCC 1 6 22
ON CHIP VBB GENERATOR
VBB
IC3204
AD9057BRS-60
VD 5 8
PWRDN 1
VDD 15
AIN 7
T/H
ADC
BIAS OUT 6
1KΩ
VREF IN 3
VREF OUT 2
+2.5V
GND 4 9 16
ENCODE 10
20 D0
17 D3
14 D4
11 D7

IC3001(DVIO)
IC3002(SHUFFLING MEMORY)
IC3003 (COMPRESSION AUDIO PROCESS SHUFFLING)
IC3201 (ERROR CORRECTION/ DCI/ATF SERVO.)
MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC5001(HR AMP)
IC3203 (ACI-1)
IC3202(EDA MEMORY)
IC3204(VITERBI A/D)
IC3006(V DRIVE)
IC3005(VCO)
IC4501(AUDIO I/F)
IC2001(CONTROL IC)
IC3801(DIGITAL I/F)
IC2011(PC I/F)
FROM/TO PROCESS (REFER TO CAMERA BLOCK)
TO MONITOR/EVF (REFER TO MONITOR/EVF BLOCK)
TO AV JACK
TO S-JACK
FROM EVR D/A
TO EVR
FROM DRIVE
FROM/TO RS232C
DV TERMINAL JK3801

CAMERA/POWER C.B.A. (3)

R201	C-4	**F**	R238	B-3	**F**	R321	B-1	**C**	R353	A-1	**C**	R731	C-4	**C**	R1016	C-6	**C**	R1050	B-1	**F**	R1142	B-2	**F**
R202	C-4	**F**	R239	A-3	**F**	R322	B-6	**F**	R354	A-1	**C**	R732	C-4	**C**	R1017	C-6	**C**	R1051	B-1	**F**	R1151	C-1	**F**
R203	B-3	**F**	R241	B-3	**F**	R323	B-6	**F**	R356	A-2	**C**	R733	C-3	**C**	R1018	C-6	**C**	R1052	C-1	**F**	R1152	C-1	**F**
R204	B-5	**C**	R242	A-3	**F**	R324	A-1	**C**	R360	B-1	**C**	R734	C-4	**C**	R1020	C-2	**F**	R1053	B-1	**F**	R1153	C-2	**F**
R205	B-3	**F**	R243	A-3	**F**	R325	B-3	**C**	R361	B-3	**C**	R735	C-3	**C**	R1021	C-2	**F**	R1054	B-2	**F**	R1154	C-3	**F**
R206	B-3	**F**	R245	B-4	**C**	R326	B-1	**C**	R368	B-3	**C**	R736	C-3	**C**	R1022	C-2	**F**	R1057	C-6	**C**	R1155	C-5	**C**
R207	A-3	**F**	R246	A-3	**F**	R327	A-2	**C**	R369	A-2	**C**	R737	C-3	**C**	R1023	C-2	**F**	R1058	C-6	**C**	R1156	C-6	**C**
R208	A-3	**F**	R247	B-4	**C**	R328	B-5	**F**	R371	A-2	**C**	R738	C-3	**C**	R1024	D-2	**F**	R1059	C-6	**C**	R1157	C-6	**C**
R209	B-3	**F**	R248	C-3	**F**	R329	B-3	**C**	R372	A-2	**C**	R740	C-4	**C**	R1025	C-2	**F**	R1060	C-5	**C**	R1158	C-6	**C**
R210	B-5	**C**	R301	B-4	**C**	R330	B-2	**C**	R379	A-6	**F**	R741	C-4	**C**	R1026	C-6	**C**	R1061	D-1	**F**	R1159	C-5	**C**
R212	B-2	**F**	R302	B-4	**C**	R331	B-1	**C**	R701	A-3	**C**	R745	B-6	**C**	R1027	C-6	**C**	R1062	D-7	**C**	R1178	C-3	**F**
R213	C-5	**C**	R303	C-5	**F**	R332	C-1	**C**	R702	B-3	**C**	R749	B-6	**C**	R1029	C-5	**C**	R1063	C-5	**C**	R1179	C-2	**F**
R214	B-3	**F**	R304	B-1	**C**	R334	B-3	**F**	R703	C-3	**C**	R751	B-6	**C**	R1030	C-1	**F**	R1081	C-6	**C**	R1253	C-5	**C**
R216	A-3	**F**	R305	B-1	**C**	R335	B-3	**F**	R705	A-4	**C**	R752	B-6	**C**	R1031	C-1	**F**	R1101	C-2	**F**	R1254	C-5	**C**
R217	B-4	**C**	R306	A-1	**C**	R336	A-2	**C**	R706	B-4	**C**	R753	B-6	**C**	R1032	C-1	**F**	R1102	C-2	**F**			
R219	A-3	**F**	R307	B-1	**C**	R337	A-2	**C**	R707	B-3	**C**	R761	C-3	**C**	R1033	C-2	**F**	R1103	C-3	**F**	**Resistor Array**		
R221	B-4	**C**	R308	B-3	**C**	R338	B-1	**C**	R708	B-5	**F**	R1001	A-2	**F**	R1034	C-2	**F**	R1104	B-2	**F**			
R222	C-5	**C**	R309	B-3	**C**	R339	B-1	**C**	R709	B-3	**C**	R1002	C-6	**C**	R1035	C-2	**F**	R1105	A-1	**F**	RA301	B-3	**C**
R223	B-5	**C**	R310	A-2	**C**	R340	C-3	**C**	R716	C-3	**C**	R1003	A-2	**F**	R1036	C-5	**C**	R1107	C-2	**F**	RA302	B-3	**C**
R224	B-5	**C**	R311	A-2	**C**	R341	C-7	**F**	R718	C-3	**C**	R1004	A-1	**F**	R1037	C-6	**C**	R1108	C-3	**F**	RA311	B-6	**F**
R225	A-3	**F**	R312	C-2	**C**	R342	C-7	**F**	R720	C-3	**C**	R1005	D-2	**F**	R1038	C-6	**C**	R1109	C-3	**F**	RA312	C-6	**F**
R226	C-4	**C**	R313	B-1	**C**	R343	A-2	**C**	R721	C-3	**C**	R1006	C-6	**C**	R1041	B-1	**F**	R1111	C-2	**F**	RA313	C-5	**F**
R227	B-4	**C**	R314	B-2	**C**	R344	B-6	**F**	R722	C-3	**C**	R1008	A-2	**F**	R1042	B-1	**F**	R1112	B-2	**F**			
R228	A-3	**F**	R315	B-2	**C**	R345	B-5	**F**	R723	C-5	**C**	R1010	B-2	**F**	R1043	B-1	**F**	R1121	C-2	**F**			
R230	B-4	**C**	R316	B-2	**C**	R346	B-1	**C**	R726	C-3	**C**	R1011	B-2	**F**	R1044	B-2	**F**	R1122	B-2	**F**			
R231	B-4	**C**	R317	C-1	**C**	R347	B-1	**C**	R727	C-3	**C**	R1012	B-2	**F**	R1046	A-2	**F**	R1131	C-1	**F**			
R232	B-4	**C**	R318	C-1	**C**	R348	B-1	**C**	R728	C-3	**C**	R1013	B-2	**F**	R1047	C-6	**C**	R1132	B-2	**F**			
R233	B-4	**C**	R319	C-1	**C**	R351	A-2	**C**	R729	C-3	**C**	R1014	B-2	**F**	R1048	C-6	**C**	R1136	C-6	**C**			
R237	B-4	**C**	R320	B-1	**C**	R352	A-2	**C**	R730	C-4	**C**	R1015	B-2	**F**	R1049	C-5	**C**	R1141	C-1	**F**			


TO VTR MAIN CONNECTION <TO PS3002> PP302
LCD 12V 1
REG 5V 2
REG 5V 3
REG 5V 4
REG 3V 5
V 3V 6
DIF 3V 7
REG 2V 8
REG 2V 9
D GND 10
D GND 11
D GND 12
D GND 13
D GND 14
D GND 15
D GND 16
D GND 17
D GND 18
D GND 19
D GND 20
NOREG GND 21
NOREG GND 22
NOREG GND 23
NOREG GND 24
NOREG GND 25
NOREG 26
NOREG 27
NOREG 28
LCD ON H 29
P ON H 30
V REF 31
TRI WAVE 32
CAP VM 33
CAP VM 34
CAP SW 35
CYL SW 36
CYL VM 37
CYL VM 38
INN BAT H 39
BATT H 40
CCD ON H 41
LCD BL CTL 42
BL BRIGHT H 43
NOREG 44
NOREG 45
NOREG GND 46
NOREG GND 47
NOREG GND 48
NOREG GND 49
NOREG GND 50
D GND 51
D GND 52
D GND 53
D GND 54
D GND 55
D GND 56
D GND 57
D GND 58
D GND 59
D GND 60
D GND 61
REG 2V 62
DIF 3V 63
DIF 3V 64
REG 3V 65
REG 3V 66
REG 5V 67
REG 5V 68
REG 5V 69
LCD 12V 70
TL101
LCD ON H
P ON H
V REF
TRI WAVE
CAP SW
CYL SW
INN BAT H
BATT H
CCD ON H
QR101 UN9211 (INV.)
Q101 2SB1073 (SWITCHING)
R102 1K
R101 10K
R103 47K
C101 6V10
IC101 RN5RG46AATRS (REG 4.6V)
TO MONITOR <TO FP903> FP304
1 NOREG
2 NOREG
3 NOREG
4 LCD BL CTL
5 NOREG GND
6 NOREG GND
7 NOREG GND
8 BL BRIGHT H
9 M 13.5V
10 M 5V
11 M 5V
12 M 3V
13 M 3V
14 M -15V
15 A GND
16 A GND
17 A GND
TO CAMERA OPERATION FP303
1 MODE2
2 MODE0
3 MODE1
4 D GND
5 ENC(-)
6 ENC SW
7 ENC(+)
8 MENU
9 D GND
10 D GND
11 MF VCC
12 MF L1
13 MF L2
14 TALLY
15 REMOTE CTL
16 REG 5V
17 MF LED
18 IR SENS
19 MF
20 WB
TO CCD <TO PS291> PS201
1 OUT
2 15V
3 15V
4 SUB
5 H1
6 H1
7 H2
8 H2
9 R
10 R
11 PW
12 PW
13 PW
14 PW
15 V4
16 V3
17 V2
18 V1
19 -8V
20 -8V
TO VTR MAIN CONNECTION (PP302)
1 INN BAT H
2 BATT H
3 P ON H
4 LCD ON H
5 LCD 12V
6 TRI WAVE
7 DIF 3V
8 CCD ON H
9 V REF
10 CAP SW
11 CAP VM
12 CYL SW
13 CYL VM
(G-11)
TO VTR MAIN CONNECTION/ LENS DRIVE/ RS232C/MONITOR
(G-1) NOREG 18
TO MONITOR
(F-11) M 13.5V 19
M 5V 20
M 3V 21
M -15V 22
TO SENSOR
(E-11) CAM -8V 23
CAM 15V 24
TO VTR MAIN CONNECTION/ PROCESS
(G-11) 14 REG 2V
15 REG 3V
TO VTR MAIN CONNECTION/ CAMERA OPERATION
(E-11) 16 REG 5V (G-11)
TO RS232C
(G-1) 17 D
D GND 25
NOREG GND 26
POWER
TO VIDEO1/LENS DRIVE
(D-1) 110 FNO
TO CAMERA OPERATION (FP303)
(G-1)
111 MF L2
112 ENC(+)
113 ENC(-)
114 ENC SW
115 MENU
116 MODE0
117 MODE1
118 MODE2
119 MF
120 WB
121 MF LED
122 MF VCC
123 MF L1
124 IR SENS
TO POWER
(G-22) 125 REG 3V
126 REG 2V
TO LENS
(E-1) 127 ABSF
128 Z ENC
129 D GND (E-1)
TO SENSOR/LENS DRIVE
(G-1) 130 CAM 2.8V
TO SENSOR/LENS DRIVE
(C-1) 131 CAM 5V
TO LENS DRIVE
(D-22)
132 CK
133 CW/CCW
134 RESET M
135 ENABLE
136 ZM CLK
137 ZM DIR
138 ZM EN
139 ZM RST
140 V REF L
141 LED CTL
142 PWM A
(F-1)
PROCESS
TO SENSOR
143 PWM B
144 CG DATA
145 AD IN
146 AGC DET
147 CG CS
148 CG CK
149 V REF 2.7
150 V REF 1.0
151 DAC S
152 CAM VD
153 CAM HD
154 FCK
155 FCK2
156 V CTL
157 AD CLK
158 CAM CP2
(C-1)
TO CONTROL/EVR(PP301)
(D-1) (F-22) MOD/BST TEST 159
TO CONTROL(PP301)
(A-1)
RTN FLD 160
CAM RTN 161
CAM 0 162
C V DATA 163
VTR T 164
CAM RESET 165
CAM D3 OFF 166
TO REAR OPERATION (PP301)
(G-22)
V REF L 167
ZOOM A/D 168
V REF H 169
TO CONTROL/VTR MAIN CONNECTION(PP301)
(D-1) CAM T 170
TO VTR MAIN CONNECTION (PP301)
(G-1)
EVR SCK 171
EVR SBI 172
EVR SBO 173
V C DATA 174
CAM SCLK 175
TO VIDEO1(PP301)
PB Y0 176
PB Y1 177
PB Y2 178
PB Y3 179
PB Y4 180
PB Y5 181
PB Y6 182
PB Y7 183
PB C0 184
PB C1 185
PB C2 186
PB C3 187
CLK 4.5M 189
PB VS 190
PB HS 191
IN H 192
IN V 193
C SI0 194
C SI1 195
C SI2 196
C SI3 197
C SI4 198
C SI5 199
C SI6 200
C SI7 201
Y SI0 202
Y SI1 203
Y SI2 204
Y SI3 205
Y SI4 206
Y SI5 207
Y SI6 208
Y SI7 209
REF CK 210
CAM TD0 211
TDI CAM 212
TO VIDEO1/2/DIF/EVR (PP301)
(A-22) TMS 213
TCK 214
TO EVR(PP301)
(F-22) CAM TEST 215
VD 216
EVR AD IN 217
E2 DATA 218
E2 CLK 219
RESET1 220
TO VTR MAIN CONNECTION <TO PS3001> PP301
1 CP OB
2 TALLY
3 CAM TDO
4 PB HS
5 PB VS
6 PB C0
7 PB C1
8 PB C2
9 PB C3
10 REF CK
11 CLK 4.5M
12 C S10
13 C S11
14 C S12
15 C S13
16 C S14
17 C S15
18 C S16
19 C S17
20 D GND
21 D GND
22 TMS
23 TCK
24 EVR AD IN
25 AGC OUT
26 D GND
27 D GND
28 CAM TEST
29 VD
30 CAM T
31 D GND
32 D GND
33 CAM RESET
34 CAM D3 OFF
35 V REF H
36 ZOOM AD
37 V REF L
38 IRIS OPEN
39 FNO
40 MOD1/BST TEST
41 CAM 0
42 CAM RTN
43 RTN FLD
44 CAM SCLK
45 V C DATA
46 C V DATA
47 VTR T
48 EVR SCK
49 EVR SBI
50 EVR SBO
51 REMOTE CTL
52 D GND
53 D GND
54 ——
55 D GND
56 E2 DATA
57 E2 CLK
58 D GND
59 RESET1
60 D GND
61 D GND
62 TDI CAM
63 IN V
64 IN H
65 Y SI7
66 Y SI6
67 Y SI5
68 Y SI4
69 Y SI3
70 Y SI2
71 Y SI1
72 Y SI0
73 PB Y7
74 PB Y6
75 PB Y5
76 PB Y4
77 PB Y3
78 PB Y2
79 PB Y1
80 PB Y0
R104 1800
TO RS232C <TO P1201> P101
NOREG 1
NOREG 2
NOREG 3
NOREG 4
D 5
NOREG GND 6
NOREG GND 7
NOREG GND 8
NOREG GND 9
NOREG GND 10
NOREG GND 11
NOREG GND 12
TO LENS FP701
HALL IN(-) 1
HALL OUT(-) 2
HALL IN(+) 3
HALL OUT(+) 4
ALC MAIN(-) 5
ALC MAIN(+) 6
ZM T3 7
ZM T1 8
ZM T4 9
ZM T2 10
F ENC 11
F ENC VCC 12
LED CTL 13
Z ENC 14
FM T3 15
FM T1 16
FM T4 17
FM T2 18
HALL IN(-)
HALL OUT(-)
HALL IN(+)
HALL OUT(+)
D GND
ALC MAIN(+)
Z AN
Z AP
Z BP
Z BN
LED CTL
F AN
F AP
F BP
F BN
R708 47K
R709 47K
TO VTR MAIN CONNECTION/ POWER/MONITOR/ RS232C
(A-1) 30 NOREG
LENS DRIVE
TO LENS(FP701)
(D-1)
31 HALL IN(-)
32 HALL OUT(-)
33 HALL IN(+)
34 HALL OUT(+)
35 D GND
36 ALC MAIN(+)
37 Z AN
38 Z AP
39 Z BP
40 Z BN
41 LED CTL
42 F ENC VCC
43 F AN
44 F AP
45 F BP
46 F BN
(B-10) TO PROCESS/SENSOR CAM 2.8V 47
(G-1) TO PROCESS/SENSOR CAM 5V 48
(F-1) NOREG GND 50 D GND 49
(C-10) TO SENSOR HALL GAIN 51 HALL BIAS 52
(F-10) TO VIDEO1 IRIS OPEN 53
(E-10) TO VIDEO1/PROCESS FNO 54
(C-1) TO PROCESS CK 55 CW/CCW 56 RESET M 57 ENABLE 58
(F-1) ZM CLK 59 ZM DIR 60 ZM EN 61 ZM RST 62
(C-10) V REF L 63
(F-1) LED CTL 64 PWM A 65
TO LENS DRIVE/PROCESS
(F-1) 70 CAM 5V
71 CAM 2.8V
TO POWER
(G-11) 72 CAM -8V
73 CAM 15V
TO LENS DRIVE
(A-11) 74 HALL GAIN
75 HALL BIAS
76 D GND (G-11)
SENSOR
TO CCD(PS201)
(G-1)
OUT 77
15V 78
SUB 79
H1 80
H2 81
R 82
V4 83
V3 84
V2 85
V1 86
-8V 87
TO EVR
(B-11) CP OB 88
AGC OUT 89
TO PROCESS
(A-11)
AD IN 90
V REF 1.0 91
V REF 2.7 92
AGC DET 93
PWM B 94
DAC S 95
CAM CP2 96
CG CS 97
CG DATA 98
CG CK 99
FCK2 100
V CTL 101
FCK 102
CAM HD 103
CAM VD 104
AD CLK 105
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.



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TO VTR MAIN CONNECTION <TO VIDEO1>
399 C G CTL
400 Y G CTL
387 TINT2
401 WIDE
404 CLP RST (H)
391 SBA CS
392 SBA S DATA
393 SBA S CLK
403 CHR Y
402 CHR BLK
389 DC STP1
390 DC STP2
397 DC S DATA
396 DC S CLK
395 AFRP
394 MC VS
388 V PLL
386 FS PLL
398 CG HD

TO VTR MAIN CONNECTION <TO VIDEO1/LCD>
437 V BLK

TO VTR MAIN CONNECTION <TO VIDEO1/2/DIF>
406 SSP

TO VTR MAIN CONNECTION <TO VIDEO1/DIF>
407 FRP

TO VTR MAIN CONNECTION <TO SPK AMP CONNECTION>
376 AV 4P SW2
373 SPK VOL
374 SPK ON (L)
375 A MUTE

TO VTR MAIN CONNECTION <TO EVR/DRIVE>
474 MIC DT
473 MIC CLK

TO VTR MAIN CONNECTION <TO EVR>
303 TEST0

TO VTR MAIN CONNECTION <TO HEAD AMP>
438 RA S TAB
439 REC C ADJ

TO VTR MAIN CONNECTION <TO VIDEO1/2>
405 RST LSI

TO VTR MAIN CONNECTION <TO POWER>
332 BL BRIGHT (H)
331 LCD BL CTL

TO VTR MAIN CONNECTION <TO LCD>
455 E GAMMA1
451 E SUB R
450 E SUB B
453 E COLOUR
452 E CONTRAST
454 E BRIGHT
460 E SUBC R
461 E SUBC B

TO VTR MAIN CONNECTION <TO VIDEO2>
409 COMP
416 V VCO
410 ALFA
411 ER RDL
412 CLK PH
413 AT FG
414 BETA
415 DL ADJ
418 BLW
419 RD
417 VCO (H)

TO VTR MAIN CONNECTION <TO VIDEO2/DIF>
420 ALE
421 AD DT0
422 AD DT1
423 AD DT2
424 AD DT3
425 AD DT4
426 AD DT5
427 AD DT6
428 AD DT7
429 AD DT8
430 AD DT9
431 AD DT10
432 AD DT11
433 AD DT12
434 AD DT13
435 AD DT14
436 DT15

TO VTR MAIN CONNECTION <TO DIF>
471 BCLK
468 INTP
469 DC
470 RST DIF

TO VTR MAIN CONNECTION <TO EVR/PROCESS>
383 MOD/BST TEST

TO VTR MAIN CONNECTION <TO RS232C>
308 DC IN SW

TO VTR MAIN CONNECTION <TO EVR>
302 UCON RST

TO VTR MAIN CONNECTION <TO VIDEO2/EVR>
384 SPA

TO VTR MAIN CONNECTION <TO VIDEO2/EVR/HEAD AMP>
385 HID1

TO VTR MAIN CONNECTION <TO VIDEO2>
408 TSR

TO VTR MAIN CONNECTION <TO SPK AMP CONNECTION>
372 ST ON (L)
371 WIND SW (H)
380 S TITLE DI
382 S TITLE CI
381 S TITLE RST

TO VTR MAIN CONNECTION <TO PROCESS>
309 CAM O
310 CAM RTN
311 RTN FLD
316 CAM T
315 C V DATA
314 CAM D3 OFF
312 CAM RST
313 VTR T

TO VTR MAIN CONNECTION
321 EVR SBO
317 V C DATA
319 EVR SCK
320 EVR SBI
318 CAM S CLK

TO VTR MAIN CONNECTION <TO SPK AMP CONNECTION>
379 CR POWER
378 S DATA
377 S CLK

TO VTR MAIN CONNECTION <TO LCD>
457 EVF BL CTL
456 EVF ON (H)
441 M GAMMA1
442 M CONTRAST
443 M BRIGHT
444 M SUB R
445 M SUB B
446 M COLOUR
458 M SUBC R
459 M SUBC B
448 CHR G
449 CHR R
447 CHR B

TO VTR MAIN CONNECTION <TO EVF>
440 E PLL

TO VTR MAIN CONNECTION <TO MONITOR>
463 V COM
464 LCD PLL
465 L/R CTL
466 U/D CTL
467 SUB BRIGHT

TO VTR MAIN CONNECTION <TO POWER/LCD>
370 LCD ON (H)

R2047 1K
D2013 MA2S728
R2087 10K
R2137 27K
R2107 10K
R2052 22K
R2001 47K
QR2008 UN9213 (DC IN SW(H):ON)
QR2014 UN9213 (AV 4P SW(H):ON)
C2048 0.1
RA2018 3300(x2)
RA2013 330(x2)
R2077 2700
R2076 2700
D2002 MA2S728
R2033 100K
R2199 100K
C2199 1
C2023 0.01
R2066 47K
R2124 22K
R2123 1K
R2126 100K
R2125 22K
QR2007 UN9213 (POWER ON:ON)
C2034 16V2.2
IC2014 TC4W53FU
IC2009 S81238SGQ8
3.8V REG
QR2001 UN9115 (BACK-UP CHANGER)
D2003 MA2S728
C2009 6V10
QR2011 UN9213 (CHARGE LI:ON)
R2143 0
R2008 100K
C2008 0.1
C2019 0.1
IC2002 S3511AEFS (REAL TIME CLOCK)
SERIAL INTERFACE
POWER VOLTAGE DETECT
REGULATOR CIRCUIT
SHIFT RESISTOR
CLOCK DATA (YEAR.MONTH.DATA.WEEK. HOUR.MINUTE.SECOND)
STATUS RESISTOR
COMPARATOR
CLOCK GENERATOR
INT RESISTOR
TIMING GENERATOR
OSCILLATOR CIRCUIT
C2006 12P
X2002 VSX0885 (32.768KHz)
C2040 12P

R2129 47K
R2109 47K
D2016 MA2S728
D2015 MA2S728
L2001 10µ
IC2006 M62370 (EVR DAC1)
R2101 47K
R2100 47K
C2010 0.01
C2011 6V10
ERRDL
RECCADJ
SUB BRIGHT
M BRIGHT
M COLOR
TINT2
SPK VOL
E SUB R
VCOM
M SUB B
M SUB R
M CONTRAST
M SUBC B
LCD PLL
E PLL
E CONTRAST
M GAMMA1
E GAMMA1
E BRIGHT
M SUBC R
E COLOR
E SUB B
E SUB R
ALFA
BETA
CLK PH
DLADJ
COMPLEV
ATFG
V VCO
C G CTL
WIDE
Y G CTL
E SUB B
YCTIM
GCTLY

REG 5V
REG 3V
3.3V REG
3.8V REG
BATT
NOREG
D2004 MA2S728
R2029 47K
IC2015 TA75S393F
R2067 27K
R2068 33K
IC2005 S29L330AFS (EEP ROM)
CL2002 CL2004 CL2001 CL2003
L2003 10µ
IC2008 TC7S32FU
R2078 100K
R2074 18K
D2026 MA110
R2032 100K
R2072 100K
D2009 MA110
QR2013 UN9213 (CAM 15P CTL(H):ON)
IC2012 TA75W393FU
C2050 0.1
C2046 0.1
C2022 6V10

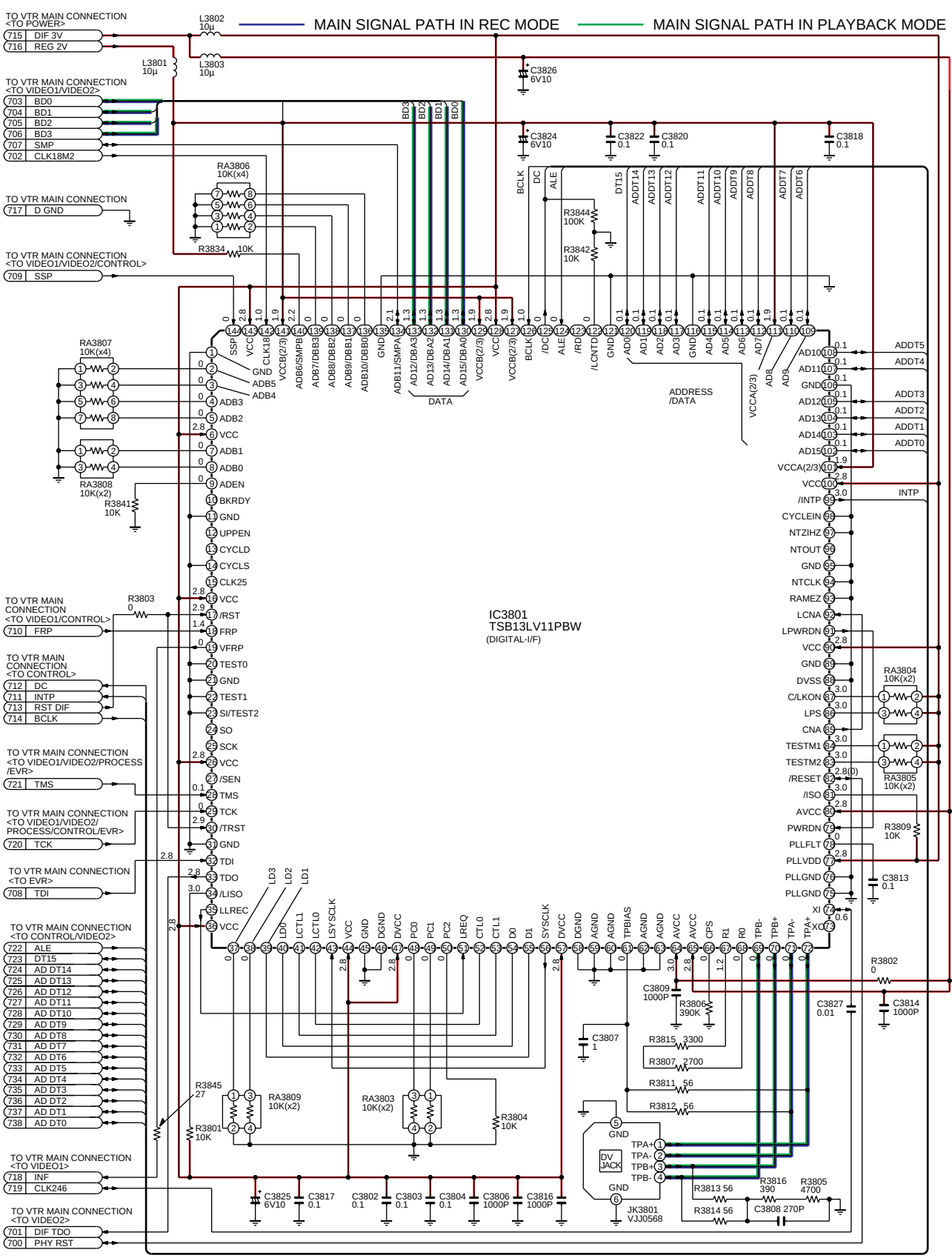
D2017 MA2S729
C2029 6V10
C2028 0.01
C2049 0.1
R2090 47K
R2058 1K
R2103 47K
R2102 47K
IC2004 S81333HGKF
3.3V REG
C2017 6V22
C2016 0.1
R2053 330
C2018 6V4.7
IC2010 XC61AN2901MR (RESET)
R2088 47K
R2069 1M
C2014 0.01
D2001 MA2S728
R2104 47K
R2057 8200
R2054 8200
C2030 0.01
X2003 VSX0990 (14.748MHz)
IC2011 D784037GK524 (PC I/F MICON)
SDO SDI EVR SBI COM RDI SCK FRP CAM T AVSS AVREFI AVDD STBY BACK DET PC RST VDD TEST0 BACK RST PCOE UART0 UARTI TEST VSS
EVR SCK EVR SBO
VTR T EXT.P.ON RESET VDD X2 X1 VSS ST ON L L/R CONT U/D CONT INSEL TALLY
LCD P SAVE A LINE (H) T PHOTO ADJ2 T PHOTO ADJ1 S PHOTO ADJ2 S PHOTO ADJ1 EYE POWER SAVE LCD WIDE
SPK ON(L) WIND SW H VTR LED CAM LED VCO(H) LCD BL CONT LCD BL BRIGHT(H) EVF BL CONT EVF ON(H) LCD ON(H) S TITLE DI S TITLE CI S TITLE RST
IC2013 MM1320ENRE
C2042 0.1
C2027 1000P
C2026 6V10
C2047 6V10
C2015 6V10
C2013 0.1

(B-LINE) (B25)(B33) (B34) (B45) (B-LINE) (B100)
(B1) (B2) (B3) (B4) (B5) (B6) (B16) (B108) (B26) (B35) (B36) (B37) (B7) (B8) (B9) (B10) (B17) (B18) (B19) (B20) (B21) (B22) (B24) (B23) (B122) (B121) (B120) (B25) (B31) (B32) (B110) (B29) (B43) (B11) (B38) (B39) (B40) (B41) (B42) (B44) (B46) (B49) (B47) (B48) (B50) (B51) (B52) (B53) (B54) (B101) (B102) (B103) (B60) (B59)(B23)(B56) (B58)(B57) (B20) (B55) (B64) (B63) (B66) (B65)(B67) (B8) (B68) (B69) (B11) (B44)(B43) (B61) (B62) (B-LINE)

CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP

IC2001
M31020MA119:NV-DA1EG/B
M31020MA117A:NV-DA1EN/ENA
(SYSTEM CONTROL)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

CYLINDER SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CAPSTAN SERVO SPEED LOOP

CASSETTE DOWN SW
MIC SW
T-PHOTO SENSOR
SOLENOID
T-REEL SENSOR
SENSOR LED
MODE SW
S-REEL SENSOR
LOADING MOTOR
S-PHOTO SENSOR

FP2004
D GND 1
C DOWN 2
MIC VDD 3
MIC DT 4
MIC CLK 5
MIC GND 6
S TAB 7
D GND 8
D GND 9
SOLENOID 10
SOLENOID 11
T PHOTO 12
S 3V 13
T REEL IN 14
S REEL IN 15
D GND 16
S REEL OUT 17
T REEL OUT 18
NOREG GND 19
SNS LED 20
POS3 21
POS2 22
POS1 23
D GND 24
LOAD 25
LOAD 26
UNLOAD 27
UNLOAD 28
S 3V 29
S PHOTO 30

C DOWN
MIC VDD
MIC DT
MIC CLK
S TAB
SOLENOID
T PHOTO
T REEL IN
S REEL IN
S REEL OUT
T REEL OUT
SNS LED
POS3
POS2
POS1
S PHOTO

R2236 27K
R2233 0
C2215 6V10
RA2203 1K(x2)

IC2206 TC7S86FU
OUT
IN2
IN1

TO VTR MAIN CONNECTION <TO PP2001>
PS2001
S 3V 1
S 3V 2
NOREG GND 3
NOREG GND 4
CYL VM 5
CYL VM 6
CYL SW 7
MIC GND 8
CYL GND 9
CYL GND 10
CAP VM 11
CAP VM 12
CAP FG 13
CAP RSF 14 (A1)
CYL ERR 15 (A8)
UNLOAD 16
S PHOTO 17
POS2 18
SNS LED 19
S REEL OUT 20
T REEL IN 21
T PHOTO 22
S TAB 23
MIC DT 24
C DOWN 25
MIC VDD 26
MIC CLK 27
SOLENOID 28
SOLENOID 29
S REEL IN 30
T REEL OUT 31
POS3 32
POS1 33
LOAD 34
TORQU LIMIT 35
CAP ERR 36 (A6)
CYL ON 37 (A7)
DRIVE CLK 38 (A5)
CYL PG 39 (A4)
CYL FG 40 (A3)
CAP GND 41
CAP GND 42
D GND 43
D GND 44
TRI WAVE 45 (A2)
CAP SW 46
NOREG 47
NOREG 48
S 5V 49
S 5V 50

R2238 1200
R2215 10K
Q2202 2SD2216 (AMP)
Q2201 2SB1462-R (AMP)
R2216 10K
R2229 10K
IC2204 TA75S393F
R2228 1M
R2227 2200
R2225 390K
R2224 1800
C2246 0.56
R2226 10K
C2240 15P
IC2205 TC75W54FU
VDD
GND
R2234 390K
R2235 100K
R2223 22K
C2238 6V10
R2222 22K
C2239 6V10

C2255 0.1
C2256 0.1
IC2207 BA6289F (LOADING MOTOR DRIVE)
GND OUT2 VREF RIN
OUT1 VM VCC FIN
C2257 0.1
C2207 1
C2208 0.1

A-LINE
B-LINE
C-LINE
(A1) (A2) (A3) (A4) (A5) (A6) (A7) (A8)
(B1) (B2) (B3) (B4) (B5) (B6) (B7) (B8) (B9)
(C1) (C2) (C3) (C4) (C5) (C6) (C7) (C8) (C9) (C10) (C11) (C12) (C13)

C2251 0.01
C2245 1000P
C2231 1000P
R2237 2200
R2221 560
C2233 1
C2205 3300P
C2232 6V10
C2234 100P
R2220 100K
C2230 6V10
C2204 0.56
C2202 1
R2205 1K
R2202 470
C2201 0.027
C2203 27P
R2201 6800
R2204 220K
C2209 0.022
C2210 0.047
R2207 560
C2211 6V4.7
R2208 0.33
R2209 0.47
C2212 0.1
C2213 0.1
C2214 0.1
R2211 4700
R2210 4700

IC2201 TB6519FA (CYL/CAP DRIVE)
YPG IN
YFGOUT
REF
GND
YFG
YPG
CFG
YSFS
YT1
YCLK
VCC
FC
GSW
YSW
CSW
CRSF
YFGOUT
YFGIN
CFGOUT
CFGIN
YSTB
YSUL
YEC
YECR
YPCI
YPCV
YPCS
YGND
YCS
YVM
YM3
YM2
YM1
YL3
YL2
YL1
YU1
YU2
YU3
CL3
CL2
CL1
CU1
CU2
CU3
CM3
CM2
CM1
CEC
CECR
CTL
CPCI
CPCV
CPCS
CGND
CCS
CPCH
H1+
H1-
H2+
H2-
H3+
H3-
CVM

C2227 0.01
R2214 1K
C2226 0.01
C2225 6V10
R2212 0.27
C2223 0.01

C2247 1000P
C2249 1000P
C2248 1000P
C2236 0.1
C2235 0.1
C2237 0.1

FP2003
9 M2
8 M2
7 FG+
6 FG/PG GND
5 M1
4 M1
3 PG+
2 M3
1 M3
CYL

C2218 0.1
C2219 0.1
C2217 0.1
RA2201 330(x4)

IC2202 MDCO5TR (CYLINDER DRIVE)
IC2203 MDCO5TR (CAPSTAN DRIVE)

R2213 470
R2232 470
R2231 100
C2250 6V47

FP2002
1 M1
2 M1
3 H3+
4 VH+
5 H3-
6 VH-
7 VH-
8 H1+
9 VH+
10 H1-
11 H2-
12 VH-
13 H2+
14 VH+
15 M2
16 M2
17 M3
18 M3
19 VMR
20 AFG1
21 GND
22 AFG2
CAP

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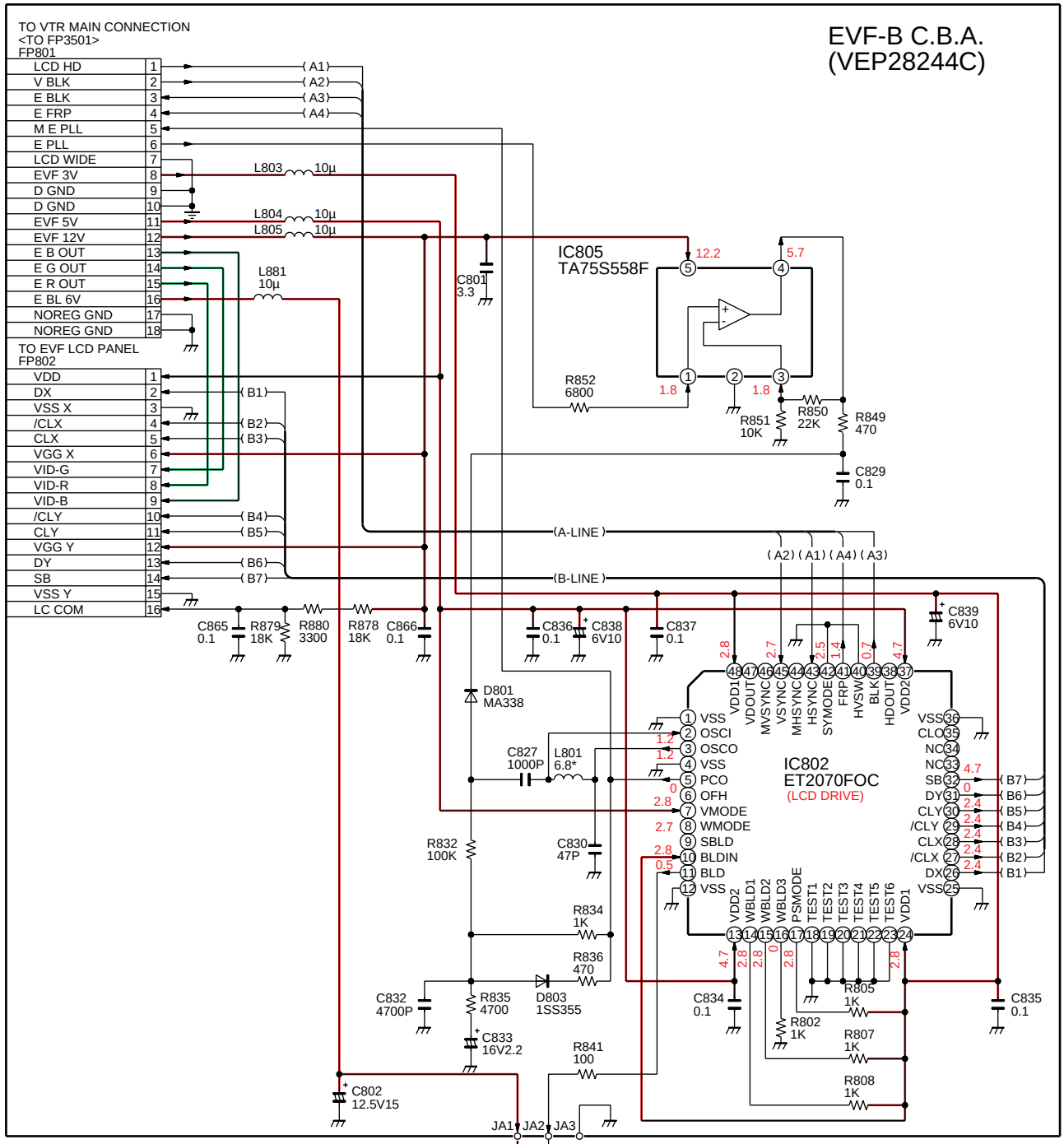
F E D C B A

1 2 3 4 5 6 7 8 9

MAIN SIGNAL PATH

EVF-B C.B.A. (VEP28244C)



INPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGEON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE COLOUR CHART.

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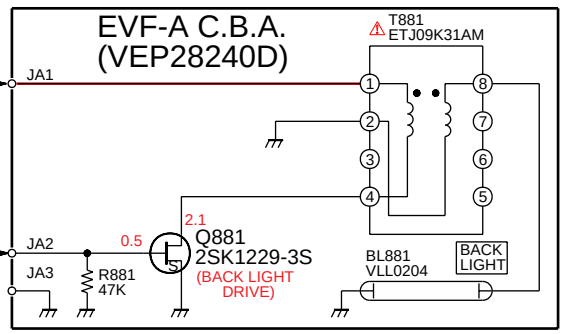
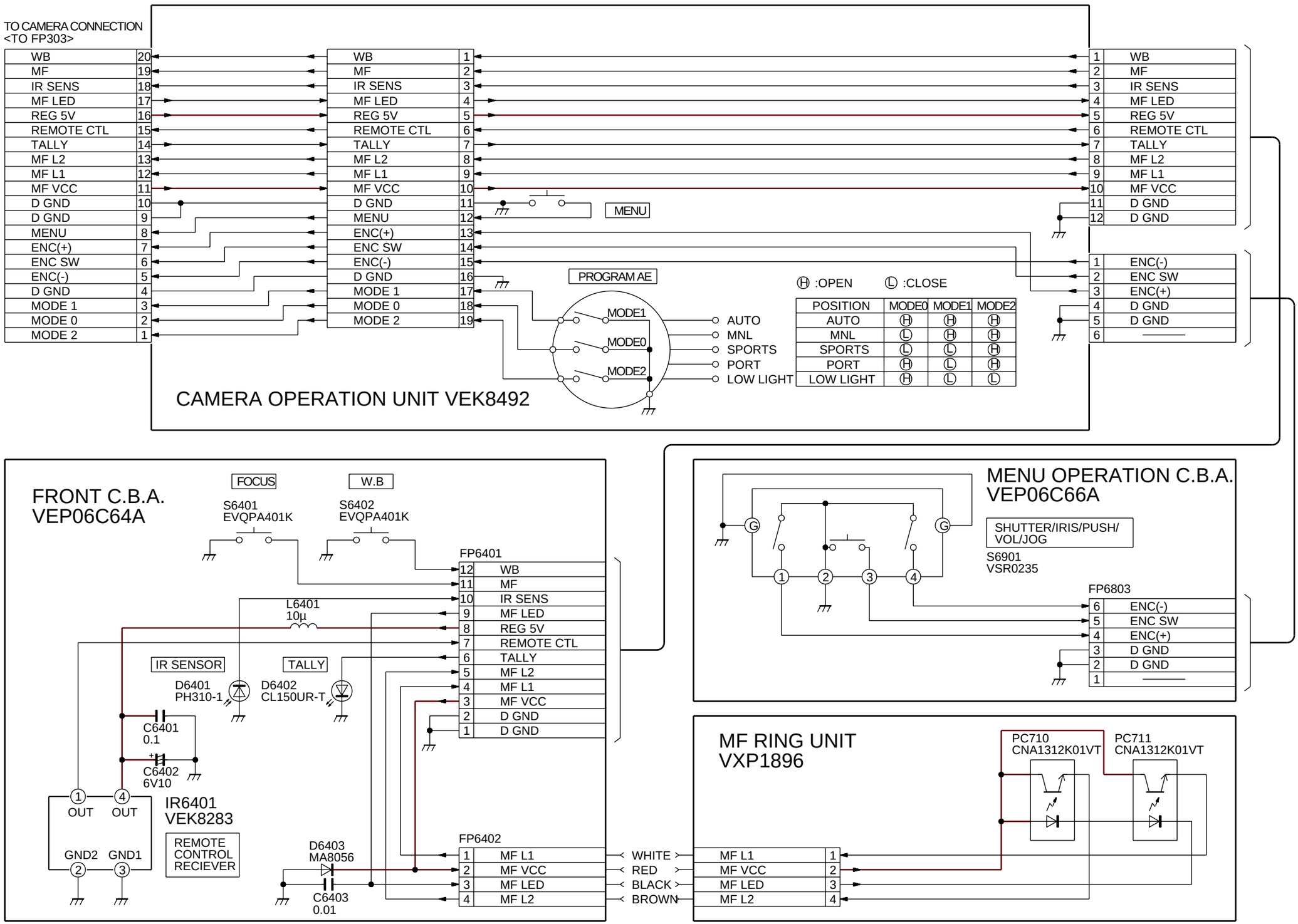
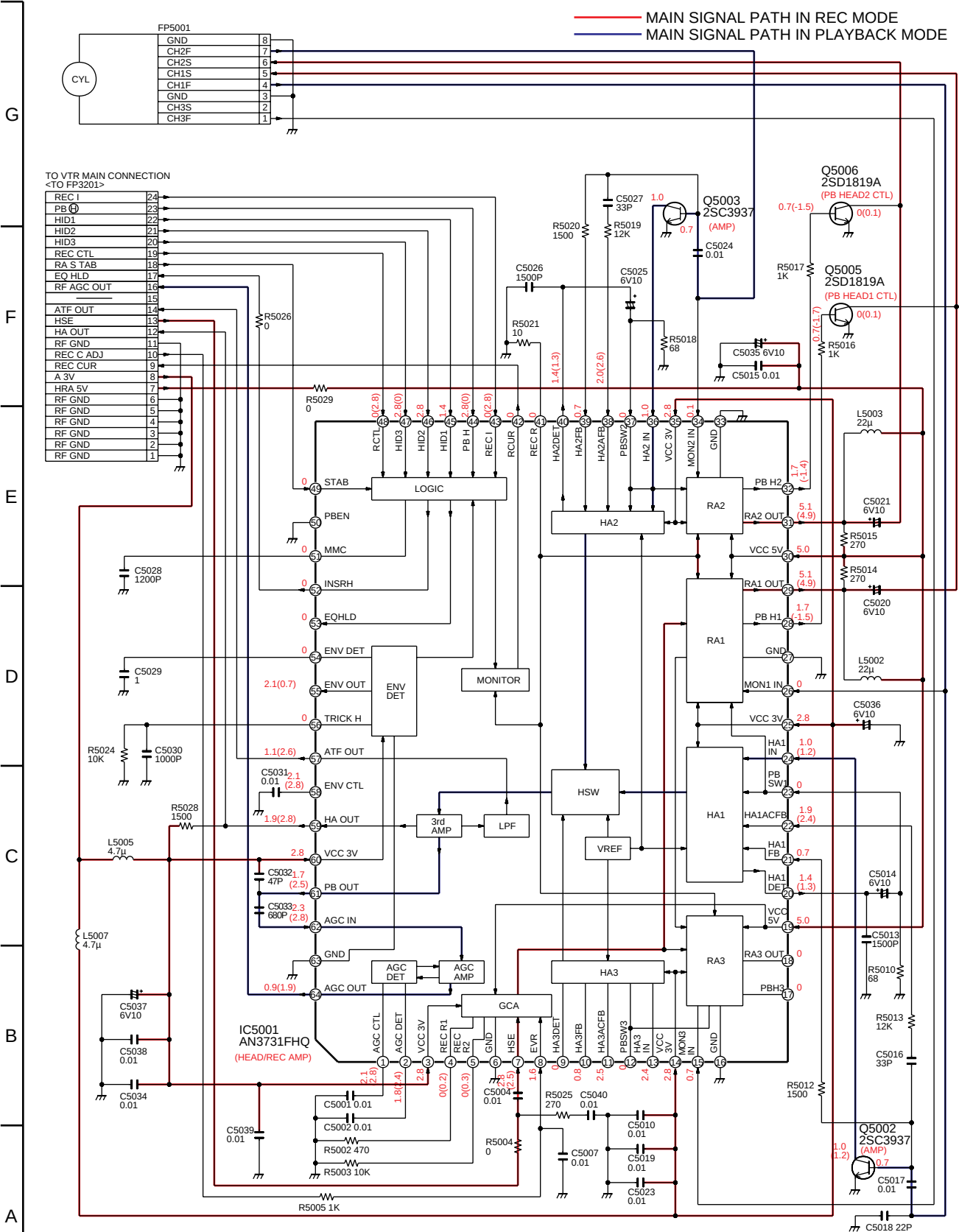
EVF-A C.B.A. (VEP28240D)





NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.



NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

BACK LIGHT UNIT

LCD PANEL

HALL SENSOR FLEX.C.B.A.

MONITOR C.B.A.

FP902

1	NOREG
2	NOREG
3	M 5V
4	BL BRIGHT (H)
5	A GND
6	NOREG GND
7	NOREG GND
8	NOREG GND

FP901

26	VSH
25	VDD
24	VR
23	VB
22	VG
21	VSS
20	MODE1
19	MCLK
18	HCNT
17	CLR
16	OE
15	SRTL
14	SRTR
13	VBC
12	CS
11	V COM
10	———
9	MODE2
8	RESET
7	GSRT
6	GPCK
5	GRES
4	V REF (L)
3	VGL
2	V REF (H)
1	VGH

FP905

1	RVS (L)
2	RVS GND
3	RVS VCC
4	OPEN (H)
5	OPEN GND
6	OPEN VCC

FP903

NOREG	1
NOREG	2
NOREG	3
NOREG	4
LCD BL CTL	5
NOREG GND	6
NOREG GND	7
NOREG GND	8
NOREG GND	9
BL BRIGHT (H)	10
M 13.5V	11
M 5V	12
M 5V	13
M 3V	14
M 3V	15
M -15V	16
A GND	17
A GND	18
A GND	19
A GND	20
A GND	21

FP904

HALL VCC	1
HALL VCC	2
SCAN1	3
LCD RVS	4
LCD OPEN	5
V COM	6
SUB BRIGHT	7
MON V COM	8
M FRP	9
MON PLL	10
M R OUT	11
M R OUT	12
M G OUT	13
M G OUT	14
M B OUT	15
M B OUT	16
M HD	17
M VD	18
LCD PLL	19
L/R CTL	20
U/D CTL	21

FP304

1	NOREG
2	NOREG
3	NOREG
4	LCD BL CTL
5	NOREG GND
6	NOREG GND
7	NOREG GND
8	BL BRIGHT (H)
9	M 13.5V
10	M 5V
11	M 5V
12	M 3V
13	M 3V
14	M -15V
15	A GND
16	A GND
17	A GND

FP602

21	HALL VCC
20	SCAN1
19	LCD RVS
18	LCD OPEN
17	V COM
16	MON PLL
15	SUB BRIGHT
14	MON V COM
13	M FRP
12	M R OUT
11	M R OUT
10	M G OUT
9	M G OUT
8	M B OUT
7	M B OUT
6	M HD
5	M VD
4	LCD PLL
3	L/R CTL
2	U/D CTL
1	U/D CTL

CAMERA/POWER C.B.A.
- CAMERA CONNECTION
- POWER
- PROCESS
- SENSOR
- LENS DRIVE

PP301 / PS3001

				PS3001			
CP OB	1	80	PB Y0	CP OB	1	80	PB Y0
TALLY	2	79	PB Y1	TALLY	2	79	PB Y1
CAM TDO	3	78	PB Y2	CAM TDO	3	78	PB Y2
PB HS	4	77	PB Y3	PB HS	4	77	PB Y3
PB VS	5	76	PB Y4	PB VS	5	76	PB Y4
PB C0	6	75	PB Y5	PB C0	6	75	PB Y5
PB C1	7	74	PB Y6	PB C1	7	74	PB Y6
PB C2	8	73	PB Y7	PB C2	8	73	PB Y7
PB C3	9	72	Y SI0	PB C3	9	72	Y SI0
REF CK	10	71	Y SI1	REF CK	10	71	Y SI1
CLK 4.5M	11	70	Y SI2	CLK 4.5M	11	70	Y SI2
C S10	12	69	Y SI3	C S10	12	69	Y SI3
C S11	13	68	Y SI4	C S11	13	68	Y SI4
C S12	14	67	Y SI5	C S12	14	67	Y SI5
C S13	15	66	Y SI6	C S13	15	66	Y SI6
C S14	16	65	Y SI7	C S14	16	65	Y SI7
C S15	17	64	IN H	C S15	17	64	IN H
C S16	18	63	IN V	C S16	18	63	IN V
C S17	19	62	TDI CAM	C S17	19	62	TDI CAM
D GND	20	61	D GND	D GND	20	61	D GND
D GND	21	60	D GND	D GND	21	60	D GND
TMS	22	59	RESET1	TMS	22	59	RESET1
TCK	23	58	D GND	TCK	23	58	D GND
EVR AD IN	24	57	E2 CLK	EVR AD IN	24	57	E2 CLK
AGC OUT	25	56	E2 DATA	AGC OUT	25	56	E2 DATA
D GND	26	55	D GND	D GND	26	55	D GND
D GND	27	54	———	D GND	27	54	———
CAM TEST	28	53	D GND	CAM TEST	28	53	D GND
VD	29	52	D GND	VD	29	52	D GND
CAM T	30	51	REMOTE CTL	CAM T	30	51	REMOTE CTL
D GND	31	50	EVR SBO	D GND	31	50	EVR SBO
D GND	32	49	EVR SBI	D GND	32	49	EVR SBI
CAM RESET	33	48	EVR SCK	CAM RESET	33	48	EVR SCK
CAM D3 OFF	34	47	VTR T	CAM D3 OFF	34	47	VTR T
V REF (H)	35	46	C V DATA	V REF (H)	35	46	C V DATA
ZOOM AD	36	45	V C DATA	ZOOM AD	36	45	V C DATA
V REF (L)	37	44	CAM SCLK	V REF (L)	37	44	CAM SCLK
IRIS OPEN	38	43	RTN FLD	IRIS OPEN	38	43	RTN FLD
FNO	39	42	CAM RTN	FNO	39	42	CAM RTN
MOD1/BST TEST	40	41	CAM O	MOD1/BST TEST	40	41	CAM O

PP302 / PS3002

				PS3002			
LCD 12V	1	70	LCD 12V	LCD 12V	1	70	LCD 12V
REG 5V	2	69	REG 5V	REG 5V	2	69	REG 5V
REG 5V	3	68	REG 5V	REG 5V	3	68	REG 5V
REG 5V	4	67	REG 5V	REG 5V	4	67	REG 5V
REG 3V	5	66	REG 3V	REG 3V	5	66	REG 3V
V 3V	6	65	REG 3V	V 3V	6	65	REG 3V
DIF 3V	7	64	DIF 3V	DIF 3V	7	64	DIF 3V
REG 2V	8	63	DIF 3V	REG 2V	8	63	DIF 3V
REG 2V	9	62	REG 2V	REG 2V	9	62	REG 2V
D GND	10	61	D GND	D GND	10	61	D GND
D GND	11	60	D GND	D GND	11	60	D GND
D GND	12	59	D GND	D GND	12	59	D GND
D GND	13	58	D GND	D GND	13	58	D GND
D GND	14	57	D GND	D GND	14	57	D GND
D GND	15	56	D GND	D GND	15	56	D GND
D GND	16	55	D GND	D GND	16	55	D GND
D GND	17	54	D GND	D GND	17	54	D GND
D GND	18	53	D GND	D GND	18	53	D GND
D GND	19	52	D GND	D GND	19	52	D GND
D GND	20	51	D GND	D GND	20	51	D GND
NOREG GND	21	50	NOREG GND	NOREG GND	21	50	NOREG GND
NOREG GND	22	49	NOREG GND	NOREG GND	22	49	NOREG GND
NOREG GND	23	48	NOREG GND	NOREG GND	23	48	NOREG GND
NOREG GND	24	47	NOREG GND	NOREG GND	24	47	NOREG GND
NOREG GND	25	46	NOREG GND	NOREG GND	25	46	NOREG GND
NOREG	26	45	NOREG	NOREG	26	45	NOREG
NOREG	27	44	NOREG	NOREG	27	44	NOREG
NOREG	28	43	BL BRIGHT (H)	NOREG	28	43	BL BRIGHT (H)
LCD ON (H)	29	42	LCD BL CTL	LCD ON (H)	29	42	LCD BL CONT
P ON (H)	30	41	CCD ON (H)	P ON (H)	30	41	CCD ON (H)
V REF	31	40	BATT (H)	V REF	31	40	BATT (H)
TRI WAVE	32	39	INN BAT (H)	TRI WAVE	32	39	INN BAT (H)
CAP VM	33	38	CYL VM	CAP VM	33	38	CYL VM
CAP VM	34	37	CYL VM	CAP VM	34	37	CYL VM
CAP SW	35	36	CYL SW	CAP SW	35	36	CYL SW

EVF-A C.B.A.

DV TERMINAL

JK3801

LCD PANEL

EVF-B C.B.A.

FP802

1	VDD
2	DX
3	VSS X
4	/CLK
5	CLK
6	VGG X
7	VID-G
8	VID-R
9	VID-G
10	/CLY
11	CLY
12	VGG Y
13	DY
14	SB
15	VSS Y
16	LC COM

FP801

LCD HD	1
V BLK	2
E BLK	3
E FRP	4
M E PLL	5
E PLL	6
LCD WIDE	7
EVF 3V	8
D GND	9
D GND	10
EVF 5V	11
EVF 12V	12
E B OUT	13
E G OUT	14
E R OUT	15
E BL 6V	16
NOREG GND	17
NOREG GND	18

FP3501

18	LCD HD
17	V BLK
16	E BLK
15	E FRP
14	M E PLL
13	E PLL
12	LCD WIDE
11	EVF 3V
10	D GND
9	D GND
8	EVF 5V
7	EVF 12V
6	E B OUT
5	E G OUT
4	E R OUT
3	E BL 6V
2	NOREG GND
1	NOREG GND

MIC UNIT

ECM

FP4803

5	ECM(LR)
4	ECM(LF)
3	GND
2	ECM(RF)
1	ECM(RR)

FP4802

REG A5V	1	
REG A5V	2	
MIC OUT(R)	3	
MIC GND	4	
MIC OUT(L)	5	
MIC GND	6	

FP4901

1	REG A5V
2	REG A5V
3	MIC OUT(R)
4	MIC GND
5	MIC OUT(L)
6	MIC GND

SPEAKER AMP C.B.A.
- SPEAKER AMP CONNECTION
- SPEAKER AMP

SPEAKER

P3001

2	SP OUT2
1	SP OUT1

EDIT (E)

J4050

MIC

J4901

AV OUT

J4051

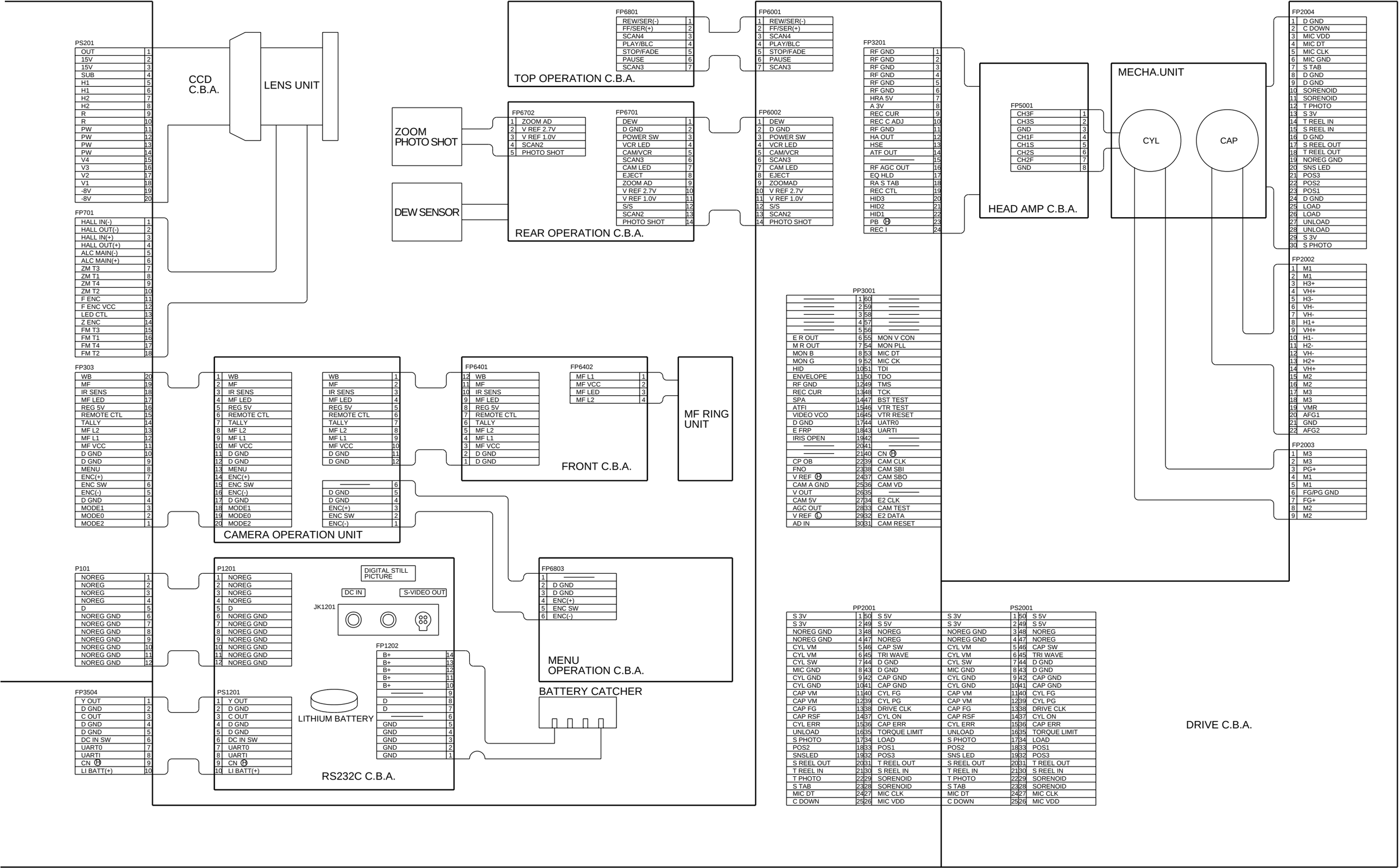
PS4902

S DATA	1	1
CR POWER	2	2
D GND	3	3
V OUT	4	4
V 3V	5	5
REG 5V	6	6
NOREG	7	7
D GND	8	8
A AD IN L	9	9
D GND	10	10
A LCH OUT	11	11
A MUTE	12	12
S TITLE DI	13	13
S TITLE RST	14	14
S TITLE CI	15	15
WIND SW (H)	16	16
ST ON (L)	17	17
SPK ON (L)	18	18
SPK VOL	19	19
A RCH OUT	20	20
D GND	21	21
A AD IN R	22	22
D GND	23	23
NOREG	24	24
REG 5V	25	25
V 3V	26	26
D GND	27	27
AV 4P SW2	28	28
REG 5V	29	29
S CLK	30	30

PP4802

1	S DATA	
2	CR POWER	
3	D GND	
4	V OUT	
5	V 3V	
6	REG 5V	
7	NOREG	
8	D GND	
9	A AD IN L	
10	D GND	
11	A LCH OUT	
12	A MUTE	
13	S TITLE DI	
14	S TITLE RST	
15	S TITLE CI	
16	WIND SW (H)	
17	ST ON (L)	
18	SPK ON (L)	
19	SPK VOL	
20	A RCH OUT	
21	D GND	
22	A AD IN R	
23	D GND	
24	NOREG	
25	REG 5V	
26	V 3V	
27	D GND	
28	AV4P SW2	
29	REG 5V	
30	S CLK	

VTR MAIN C.B.A.
- VTR MAIN CONNECTION
- CONTROL
- VIDEO1
- VIDEO2
- DIGITAL I/F
- LCD
- AUDIO


PS201
OUT 1
15V 2
15V 3
SUB 4
H1 5
H1 6
H2 7
H2 8
R 9
R 10
PW 11
PW 12
PW 13
PW 14
V4 15
V3 16
V2 17
V1 18
-8V 19
-8V 20
CCD C.B.A.
LENS UNIT
FP701
HALL IN(-) 1
HALL OUT(-) 2
HALL IN(+) 3
HALL OUT(+) 4
ALC MAIN(-) 5
ALC MAIN(+) 6
ZM T3 7
ZM T1 8
ZM T4 9
ZM T2 10
F ENC 11
F ENC VCC 12
LED CTL 13
Z ENC 14
FM T3 15
FM T1 16
FM T4 17
FM T2 18
FP303
WB 20
MF 19
IR SENS 18
MF LED 17
REG 5V 16
REMOTE CTL 15
TALLY 14
MF L2 13
MF L1 12
MF VCC 11
D GND 10
D GND 9
MENU 8
ENC(+) 7
ENC SW 6
ENC(-) 5
D GND 4
MODE1 3
MODE0 2
MODE2 1
1 WB
2 MF
3 IR SENS
4 MF LED
5 REG 5V
6 REMOTE CTL
7 TALLY
8 MF L2
9 MF L1
10 MF VCC
11 D GND
12 D GND
13 MENU
14 ENC(+)
15 ENC SW
16 ENC(-)
17 D GND
18 MODE1
19 MODE0
20 MODE2
WB 1
MF 2
IR SENS 3
MF LED 4
REG 5V 5
REMOTE CTL 6
TALLY 7
MF L2 8
MF L1 9
MF VCC 10
D GND 11
D GND 12
6
D GND 5
D GND 4
ENC(+) 3
ENC SW 2
ENC(-) 1
CAMERA OPERATION UNIT
FP6401
12 WB
11 MF
10 IR SENS
9 MF LED
8 REG 5V
7 REMOTE CTL
6 TALLY
5 MF L2
4 MF L1
3 MF VCC
2 D GND
1 D GND
FRONT C.B.A.
FP6402
MF L1 1
MF VCC 2
MF LED 3
MF L2 4
MF RING UNIT
FP6801
REW/SER(-) 1
FF/SER(+) 2
SCAN4 3
PLAY/BLC 4
STOP/FADE 5
PAUSE 6
SCAN3 7
TOP OPERATION C.B.A.
FP6001
1 REW/SER(-)
2 FF/SER(+)
3 SCAN4
4 PLAY/BLC
5 STOP/FADE
6 PAUSE
7 SCAN3
ZOOM PHOTO SHOT
DEW SENSOR
FP6702
1 ZOOM AD
2 V REF 2.7V
3 V REF 1.0V
4 SCAN2
5 PHOTO SHOT
FP6701
DEW 1
D GND 2
POWER SW 3
VCR LED 4
CAM/VCR 5
SCAN3 6
CAM LED 7
EJECT 8
ZOOM AD 9
V REF 2.7V 10
V REF 1.0V 11
S/S 12
SCAN2 13
PHOTO SHOT 14
REAR OPERATION C.B.A.
FP6002
1 DEW
2 D GND
3 POWER SW
4 VCR LED
5 CAM/VCR
6 SCAN3
7 CAM LED
8 EJECT
9 ZOOMAD
10 V REF 2.7V
11 V REF 1.0V
12 S/S
13 SCAN2
14 PHOTO SHOT
FP3201
RF GND 1
RF GND 2
RF GND 3
RF GND 4
RF GND 5
RF GND 6
HRA 5V 7
A 3V 8
REC CUR 9
REC C ADJ 10
RF GND 11
HA OUT 12
HSE 13
ATF OUT 14
15
RF AGC OUT 16
EQ HLD 17
RA S TAB 18
REC CTL 19
HID3 20
HID2 21
HID1 22
PB Ⓗ 23
REC I 24
HEAD AMP C.B.A.
FP5001
CH3F 1
CH3S 2
GND 3
CH1F 4
CH1S 5
CH2S 6
CH2F 7
GND 8
MECHA.UNIT
CYL
CAP
FP2004
1 D GND
2 C DOWN
3 MIC VDD
4 MIC DT
5 MIC CLK
6 MIC GND
7 S TAB
8 D GND
9 D GND
10 SORENOID
11 SORENOID
12 T PHOTO
13 S 3V
14 T REEL IN
15 S REEL IN
16 D GND
17 S REEL OUT
18 T REEL OUT
19 NOREG GND
20 SNS LED
21 POS3
22 POS2
23 POS1
24 D GND
25 LOAD
26 LOAD
27 UNLOAD
28 UNLOAD
29 S 3V
30 S PHOTO
FP2002
1 M1
2 M1
3 H3+
4 VH+
5 H3-
6 VH-
7 VH-
8 H1+
9 VH+
10 H1-
11 H2-
12 VH-
13 H2+
14 VH+
15 M2
16 M2
17 M3
18 M3
19 VMR
20 AFG1
21 GND
22 AFG2
FP2003
1 M3
2 M3
3 PG+
4 M1
5 M1
6 FG/PG GND
7 FG+
8 M2
9 M2
FP3001
1 60
2 59
3 58
4 57
5 56
E R OUT 6 55 MON V CON
M R OUT 7 54 MON PLL
MON B 8 53 MIC DT
MON G 9 52 MIC CK
HID 10 51 TDI
ENVELOPE 11 50 TDO
RF GND 12 49 TMS
REC CUR 13 48 TCK
SPA 14 47 BST TEST
ATFI 15 46 VTR TEST
VIDEO VCO 16 45 VTR RESET
D GND 17 44 UATR0
E FRP 18 43 UARTI
IRIS OPEN 19 42
20 41
21 40 CN Ⓗ
CP OB 22 39 CAM CLK
FNO 23 38 CAM SBI
V REF Ⓕ 24 37 CAM SBO
CAM A GND 25 36 CAM VD
V OUT 26 35
CAM 5V 27 34 E2 CLK
AGC OUT 28 33 CAM TEST
V REF Ⓒ 29 32 E2 DATA
AD IN 30 31 CAM RESET
P101
NOREG 1
NOREG 2
NOREG 3
NOREG 4
D 5
NOREG GND 6
NOREG GND 7
NOREG GND 8
NOREG GND 9
NOREG GND 10
NOREG GND 11
NOREG GND 12
P1201
1 NOREG
2 NOREG
3 NOREG
4 NOREG
5 D
6 NOREG GND
7 NOREG GND
8 NOREG GND
9 NOREG GND
10 NOREG GND
11 NOREG GND
12 NOREG GND
DIGITAL STILL PICTURE
DC IN
S-VIDEO OUT
JK1201
FP1202
B+ 14
B+ 13
B+ 12
B+ 11
B+ 10
9
D 8
D 7
6
GND 5
GND 4
GND 3
GND 2
GND 1
FP6803
1
2 D GND
3 D GND
4 ENC(+)
5 ENC SW
6 ENC(-)
MENU OPERATION C.B.A.
BATTERY CATCHER
FP3504
Y OUT 1
D GND 2
C OUT 3
D GND 4
D GND 5
DC IN SW 6
UART0 7
UARTI 8
CN Ⓗ 9
LI BATT(+) 10
PS1201
1 Y OUT
2 D GND
3 C OUT
4 D GND
5 D GND
6 DC IN SW
7 UART0
8 UARTI
9 CN Ⓗ
10 LI BATT(+)
LITHIUM BATTERY
RS232C C.B.A.
PP2001
S 3V 1 50 S 5V
S 3V 2 49 S 5V
NOREG GND 3 48 NOREG
NOREG GND 4 47 NOREG
CYL VM 5 46 CAP SW
CYL VM 6 45 TRI WAVE
CYL SW 7 44 D GND
MIC GND 8 43 D GND
CYL GND 9 42 CAP GND
CYL GND 10 41 CAP GND
CAP VM 11 40 CYL FG
CAP VM 12 39 CYL PG
CAP FG 13 38 DRIVE CLK
CAP RSF 14 37 CYL ON
CYL ERR 15 36 CAP ERR
UNLOAD 16 35 TORQUE LIMIT
S PHOTO 17 34 LOAD
POS2 18 33 POS1
SNSLED 19 32 POS3
S REEL OUT 20 31 T REEL OUT
T REEL IN 21 30 S REEL IN
T PHOTO 22 29 SORENOID
S TAB 23 28 SORENOID
MIC DT 24 27 MIC CLK
C DOWN 25 26 MIC VDD
PS2001
S 3V 1 50 S 5V
S 3V 2 49 S 5V
NOREG GND 3 48 NOREG
NOREG GND 4 47 NOREG
CYL VM 5 46 CAP SW
CYL VM 6 45 TRI WAVE
CYL SW 7 44 D GND
MIC GND 8 43 D GND
CYL GND 9 42 CAP GND
CYL GND 10 41 CAP GND
CAP VM 11 40 CYL FG
CAP VM 12 39 CYL PG
CAP FG 13 38 DRIVE CLK
CAP RSF 14 37 CYL ON
CYL ERR 15 36 CAP ERR
UNLOAD 16 35 TORQUE LIMIT
S PHOTO 17 34 LOAD
POS2 18 33 POS1
SNS LED 19 32 POS3
S REEL OUT 20 31 T REEL OUT
T REEL IN 21 30 S REEL IN
T PHOTO 22 29 SORENOID
S TAB 23 28 SORENOID
MIC DT 24 27 MIC CLK
C DOWN 25 26 MIC VDD
DRIVE C.B.A.

IC2001 (M31020MA): SYSTEM CONTROL MICROCOMPUTER

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
1	VSS	—	GND	60	S REEL	I	Supply Reel Pulse
2	HLDA	O	EXT-Bus Hold Acknowledge/BST TCK (CLK)	61	SPA	I	ATF Sampling Pulse
3	HOLD	I	EXT-Bus Hold Request	62	AFRP	I	AFRP
4	RESET	I	Reset	63	MCVS	I	MCVS
5	MOD0	I	Single Chip Mode=VSS, VSS	64	FRP	I	Frame Reference Pulse
6	MOD1	I	Memory Extend Mode=VSS, VCC	65	VSS	—	GND
7	VCC	—	Voltage	66	VCC	—	Voltage
8	VSS	—	GND	67	CCD ON	O	Camera CCD On
9	VCC	—	Voltage	68	A MUTE	O	Audio Mute
10	STAB	I	Safety Tab SW	69	SCK	O	Serial Clock
11	CAM/5PCONT	O	CAM/5P Select Signal	70	SDO	O	232C/5P
12	COM RDY	O	RS-232C I/F Connect Timing	71	SDI	I	232C/5P
13	CAM	O	Camera Out	72	BST TEST	I	Boundary Scan Test SW
14	KEY IN1	I	Key Scan IN 1 /BST TD0 (data out)	73	TM CG CLK	O	Timer & Character Generator Serial Clock
15	KEY IN2	I	Key Scan IN 2 /BST TD1 (data in)	74	TM CG D0	O	Timer & Character Generator Serial Data Out
16	KEY IN3	I	Key Scan IN 3 /BST TMS (Test Mode Select)	75	TM CG D1	I	Timer & Character Generator Serial Data In
17	KEY IN4	I	Key Scan IN 4	76	COM RST	O	RS-232C I/F Reset
18	VSS	—	GND	77	CAM CLK	O	Camera Serial Clock
19	OSC VCC	—	Voltage	78	CAM D0	O	Camera Serial Data Out
20	XIN	I	27MHz	79	CAM D1	I	Camera Serial Data In
21	XOUT	O	27MHz	80	TORQUE LIMIT	O	Capstan Torque Limit
22	OSC VSS	—	GND	81	DCS CLK	O	CAS & DVIO Serial Clock
23	VSS	—	GND	82	DCS D0	O	CAS & DVIO Serial Data Out
24	VCC	—	Voltage	83	DCS DI	I	CAS & DVIO Serial Data In
25	SCAN 1	O	Key Scan Out 1	84	VCC	—	Voltage
26	SCAN 2	O	Key Scan Out 2	85	VSS	—	GND
27	UNLOAD	O	Mecha Unload	86	SSP	I	Sector Start Pulse
28	LOAD	O	Mecha Load	87	POWER SW	I	Power SW
29	PON Ⓗ	O	Power On Control	88	DIF INT	I	DIF INT
30	CAM RTM	O	H: CAM 4.5MHz, L: DV 1027MHz	89	P OFF Ⓗ	I	Camera Remote Control Power
31	TIME CS	O	Timer Chip Select	90	EJECT SW	I	Eject SW
32	SOLENOID ON	O	Solenoid On	91	TM INT	I	Timer Interrupt Request
33	CLP RST Ⓗ	O	Y CLP Discharge	92	CYL ERR	O	Cylinder Error
34	LIN DET	I	Line in Signal Detect	93	CAP ERR	O	Capstan Error
35	CAM D3 OFF	O	CAM Power Manage (18MHz Power Control) H: ON	94	V PLL	O	Video PLL
36	P DIF SW	—	(N.C.)	95	FS PLL	O	FS PLL (ATF ERR for Linear Arrangement)
37	SNS LED	O	Tape Sensor LED	96	DRIVE CLK	O	Cylinder Drive Clock
38	CRG L1	O	Charge Clock Data Out ON/OFF	97	MIC DATA	I/O	MIC Data In/Out (12C)
39	SBA SCK	O	Sub Audio Serial	98	MIC CLK	O	MIC ON (MIC/Contact ID)
40	SBA SDA	O	Sub Audio Serial	99	EE CLK	O	EEPROM & DAC Clock
41	VCC	—	Voltage	100	EE DI	I	EEPROM & DAC Data In
42	VSS	—	GND	101	VSS	—	GND
43	VCC	—	Voltage	102	VCC	—	Voltage
44	MIC ON	O	MIC ON (MIC/Contact ID)	103	EE DO	O	EEPROM & DAC Data Out
45	RTN ON	O		104	EE CS	O	EEPROM Chip Select
46	RST DVIO	O	DV10, CAS, EDA Reset	105	SBA CS	O	Sub Audio Chip Select
47	SCAN 3	O	Key Scan Out 3	106	DAC LD	O	DAC Load
48	SCAN 4	O	Key Scan Out 4	107	DCS WA	O	DCS Serial Start
49	RST DIF	O	DIF LSI Reset	108	DCS STP	O	DCS Serial Stop
50	CYL ON	O	Cylinder On	109	CAP DWN	I	Cassette Down SW
51	CAP RSF	O	Capstan On	110	POS3	I	Mecha Position SW3
52	VCC	—	Voltage	111	POS2	I	Mecha Position SW2
53	VSS	—	GND	112	POS1	I	Mecha Position SW1
54	CYL FG	I	Cylinder FG	113	AVSS	—	GND
55	CAP FG	I	Capstan FG	114	SQEZ	I	SQEZ
56	TSR	I	Track Start Reference	115	LETT BOX	I	Letter Box Detect
57	HID	I	HSW	116	NC	—	(N.C.)
58	REMOCON	I	Remote Control Pulse	117	BATT REF	I	Battery Reference
59	T REEL	I	Take Up Reel Pulse	118	BATT	I	Battery Voltage Detect

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
119	INN BATT Ⓗ	I	INN. BATT/EXT. BATT Detect	138	NC	—	(N.C.)
120	TEST	I	Test SW	139	DT15	I/O	EXT-Memory Address/Data BUS
121	T PHOT	I	Dew Detect	140	ADDT14	I/O	EXT-Memory Address/Data BUS
122	S PHOT	I	Tape Take-up Photo Sensor Detect	141	ADDT13	I/O	EXT-Memory Address/Data BUS
123	DEW	I	Tape Supply Photo Sensor Detect	142	ADDT12	I/O	EXT-Memory Address/Data BUS
124	MIC AD3	I	Contact ID Detect 3	143	ADDT11	I/O	EXT-Memory Address/Data BUS
125	MIC AD2	I	Contact ID Detect 2	144	ADDT10	I/O	EXT-Memory Address/Data BUS
126	MIC AD1	I	Contact ID Detect 1	145	ADDT9	I/O	EXT-Memory Address/Data BUS
127	A VREF	—	Voltage Reference	146	ADDT8	I/O	EXT-Memory Address/Data BUS
128	A VCC	—	Voltage	147	ADDT7	I/O	EXT-Memory Address/Data BUS
129	VCC2	—	Voltage	148	ADDT6	I/O	EXT-Memory Address/Data BUS
130	VSS	—	GND	149	ADDT5	I/O	EXT-Memory Address/Data BUS
131	CAM RST	O	Camera Reset	150	ADDT4	I/O	EXT-Memory Address/Data BUS
132	BCLK	O	B CLK	151	ADDT3	I/O	EXT-Memory Address/Data BUS
133	DC	I	Data Complete for EXT-memory Mode	152	ADDT2	I/O	EXT-Memory Address/Data BUS
134	PO3/RW	O	(N.C.)	153	ADDT1	I/O	EXT-Memory Address/Data BUS
135	ALE	O	Address Latch Enable for EXT-Memory Mode	154	ADDT0	I/O	EXT-Memory Address/Data BUS
136	RD	O	Read Strobe for EXT-Memory Mode	155	VSS	—	GND
137	BLW	O	Byte Low Write for EXT-Memory Mode	156	VCC2	—	Voltage

IC2011 (D784037GK524): RS-232C INTERFACE MICROCOMPUTER

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
1	EVR SCK	O	Serial Clock Signal for SYNC Serial Communication (To Camera Micom)	38	S TITLE RST	O	
				45	VSS	—	GND
2	EVR SBO	O	Serial Data Signal for SYNC Serial Communication (To Camera Micom)	46	TEST	—	GND
				47	CGCS	O	CG CS
5	VTR T	O	SYNC Serial Communication Enable Signal for Camera Micom	48	CGPCL	O	CG PCL
				50	UARTI	I	RS-232C Data
7	RESET	I	Reset Signal	51	UARTO	O	RS-232C Data
8	VDD	—	VDD ({3V)	52	PCOE	O	RS-232C Driver Output Enable
9	X2	O	Oscillator (14.7456MHz)	53	BACK RST	—	(N.C.)
10	X1	I	Oscillator (14.7456MHz)	54	TEST0	I	VTR Test Signal (H: Normal, L: Test Mode)
11	VSS	—	GND				
12	S TITLE Ⓛ	O	Sound Effect Control Signal	55	VDD	—	VDD ({3V)
13	L/R CONT	O	LCD Driver Control (L/R Invert)	56	PC RST	I	Reset Signal Detect (AD Input)
14	U/D CONT	O	LCD Driver Control (U/D Invert)	60	STBY	I	RS-232C Cable Connect Confirm
15	LCD P SAVE	—	(N.C.)	61	BACK DET	—	GND
17	INSEL	—	(N.C.)	64	AVDD	—	Voltage for AD Converter ({3V)
18	TALLY	O	TALLY LED Control	65	AVREF1	—	Reference Voltage for AD Converter ({3V)
19	A LINE Ⓗ	—	(N.C.)				
20	T PH AD2	O	Take u	66	AVSS	—	GND for AD Converter
21	T PH AD1	O	Take u	69	AVREF2	—	GND
22	S PH AD2	O	Supply Tape Sensor	70	AVREF3	—	GND
23	S PH AD1	O	Supply Tape Sensor	71	NM1	—	GND
24	EYE P SAVE	—	(N.C.)	72	CAM T	I	Camera Service/232C Micom Select Signal (H: 232C, L: Camera Service)
25	LCD WIDE	O	LCD Driver Wide Select				
26	SPK ON Ⓛ	O	Speaker ON	73	FRP	I	Frame SYNC Signal
27	WIDNSW Ⓗ	O	Noise Silent	76	SCK	I	Serial Clock Signal for SYNC Serial Communication (To VTR Micom)
28	VTR LED	O	VTR Mode LED				
29	CAM LED	O	CAMERA Mode LED	77	COM RDI	I	SYNC Serial Communication Enable Signal for VTR Micom
30	VCO Ⓗ	O	VCO Test Mode Ⓗ				
31	LCD BL CONT	O	LCD Back Light Control Signal	78	EVR SBI	I	Serial Data Input for SYNC Serial Communication (To Camera Micom)
32	BL BRIGHT Ⓗ	O	Back Light Bright Control Signal				
33	EVF BL CONT	O	EVF Back Light Control Signal	79	SDI	I	Serial Data for SYNC Serial Communication (To VTR Micom)
34	EVF ONⒽ	O	EVF ON				
35	LCD ON Ⓗ	O	LCD ON	80	SDO	O	Serial Data for SYNC Serial Communication (To VTR Micom)
36	S TITLE DI	O					
37	S TITLE CI	O					

Y SIGNAL PATH C SIGNAL PATH Y/C SIGNAL PATH

TO VTR MAIN CONNECTION <TO POWER>
779 LCD 12V
777 REG 5V
778 REG 3V
803 NOREG

TO VTR MAIN CONNECTION
708 D GND

TO VTR MAIN CONNECTION <TO CONTROL>
771 EVF BL CTL
770 EVF ON (H)

TO VTR MAIN CONNECTION <TO POWER/CONTROL>
776 LCD ON (H)

TO VTR MAIN CONNECTION <TO VIDEO1/CONTROL>
754 V BLK

TO VTR MAIN CONNECTION <TO VIDEO1>
753 LCD Y
750 CB OUT
751 CR OUT
752 LCD HD

TO VTR MAIN CONNECTION <TO CONTROL>
761 M GAMMA1
762 M BRIGHT
763 M COLOUR
772 M SUBC R
773 M SUBC B
764 CHR B
765 CHR G
766 CHR R
767 M CONTRAST
768 M SUB R
769 M SUB B

L606 22µ
R525 22K
R526 15K
R612 22K
R613 2200
L605 10µ
R609 22K
R608 27K
R605 1K
C665 1
R606 22K
R607 2200
R530 47K
R529 47K
C671 6V10
R528 47K
C667 6V10
R527 47K
R611 39K
R610 22K
L603 10µ
C634 1
R519 100K
R533 100K
R536 100K
R541 39K
R542 39K
R543 39K
R544 39K
R545 39K
R546 39K
Q608 2SB970X (EVF 5V:ON)
Q604 2SB970X (MONITOR) (3V:ON)
Q602 2SB970X (EVF 12V:ON)
Q610 2SD2216 (EVF ON (H):ON)
Q601 2SB970X (EVF 3V:ON)
QR604 UN9212 (EVF ON (H):ON)
QR606 UN9212 (LCD ON (H):ON)
Q609 2SD2216 (LCD ON (H):ON)
Q603 2SB970X (MONITOR) (12:ON)
QR601 UN9212 (EVF ON (H):ON)
Q501 XP4601 (AMP)
Q502 XP4601 (AMP)
Q503 XP4601 (AMP)
Q504 XP4601 (AMP)
Q505 XP4601 (AMP)
Q506 XP4601 (AMP)

IC604 BU4053BCFV (SWITCHING)
SWITCH CONTROL
VDD Y X X1 X0 A B C
Y1 Y0 Z1 Z Z0 INH VEE VSS

TO VTR MAIN CONNECTION <TO EVR>
MON B 783
MON G 782
MON PLL 781

TO VTR MAIN CONNECTION <TO EVR/MONITOR>
M R OUT 786

TO VTR MAIN CONNECTION <TO MONITOR>
M FRP 798
MON M PLL 797
M VD 801
M B OUT 799
M HD 802
M G OUT 800

R512 1K
R511 1K
R510 1K
L607 47µ
C649 39P
R667 6800
C636 0.01
R668 22K
C637 0.01
C638 0.01
C639 0.01
C640 0.01
R665 22K
R664 12K
R663 4700
R661 33K
R671 56K
C650 56P
C651 56P
R604 6800
R666 1K
C641 0.01
C633 6V47
C635 0.01
C642 0.01
R547 47K
Q607 2SB970X (REG E) (BL 6V)
Q507 XP1501 (REG E BL 6V)
R523 2200
R548 3300
R522 68K
R521 68K

IC601 IR3Y35M (VIDEO SIGNAL PROCESSOR)
(FOR MONITOR)
WHITE LIM BLACK LIM GAMMA2 GAMMA1 GAMMA-G BRIGHT VCC1 GND2 S/HRGB S/H R S/H G S/H B
B IN G IN R IN Y IN CB CR R-Y/CRSW COLOUR RGBSW OSDB OSDG OSDR
VCC2 S-CONT-R S-CONT-B CONTRAST P-SAVE BLK FRP RGB-AMP S-BRI-R S-BRI-B VREF VCC3
PICTURE HSYNC TC1 TC2 GND3 GND1 RDCDET ROUT GDCDET GOUT BDCOUT BOUT

R677 3K
C654 0.01
R687 39K
R680 22K
C656 0.01
C655 0.01
C657 0.01
R674 1K
C643 0.01
C644 0.01
C645 0.01
C658 0.01
C652 0.01
C653 0.01
R509 1K
R508 1K
R507 1K
R504 33K
R695 68K
R694 68K
R659 5600
R517 1500
R515 1500
R513 1500
C501 3.3
C502 3.3
C503 3.3
R503 82K
C647 180P
C648 68P
C664 1
C663 1
C662 1
R518 4700
R516 4700
R514 4700
R540 27K
R534 27K
R520 27K
C646 0.01
R673 1K
R696 1K
R537 1K
R538 1K
R697 1K
R698 1K
R699 1K
R690 1K
R685 1K
R683 1K

R658 1K
R657 1K
R656 1K
L602 10µ
R624 1K
R625 5600
C604 0.01
C605 0.01
C606 0.01
C607 0.01
R629 22K
C608 0.01
C617 56P
C618 56P
C619 56P
R623 22K
R622 22K
R621 22K
R619 3300
R631 1K
C609 0.01
C601 6V47
C603 0.01

IC602 IR3Y35M (VIDEO SIGNAL PROCESSOR)
(FOR EVF)
WHITE LIM BLACK LIM GAMMA2 GAMMA1 GAMMA-G BRIGHT VCC1 GND2 S/HRGB S/H R S/H G S/H B
B IN G IN R IN Y IN CB CR R-Y/CRSW COLOUR RGBSW OSDB OSDG OSDR
VCC2 S-CONT-R S-CONT-B CONTRAST P-SAVE BLK FRP RGB-AMP S-BRI-R S-BRI-B VREF VCC3
PICTURE HSYNC TC1 TC2 GND3 GND1 RDCDET ROUT GDCDET GOUT BDCOUT BOUT

R634 18K
C622 0.01
R644 22K
R637 22K
C624 0.01
C623 0.01
R635 1K
R636 1K
R639 33K
R616 10K
L601 10µ
C602 1
C611 0.01
C612 0.01
C613 0.01
R617 5600
C610 0.01
C626 0.01
R648 100
R652 68K
R651 68K
R649 100
R650 100
C615 180P
C616 68P
C632 1
C631 1
C630 1
C625 0.01
C620 0.01
C621 0.01
R647 1K
R640 1K
R642 1K
C614 0.01
R653 1K

TO VTR MAIN CONNECTION <TO EVF>
E BL 6V 793
LCD HD 790
V BLK 789
EVF 3V 787
M E PLL 792
E BLK 794
E B OUT 795
EVF 5V 791
E G OUT 796
EVF 12V 788

TO VTR MAIN CONNECTION <TO EVR/EVF>
E FRP 784
E R OUT 785

TO VTR MAIN CONNECTION <TO CONTROL>
E SUBC R 774
E SUBC B 775
E SUB B 755
E SUB R 756
E CONTRAST 757
E COLOUR 758
E BRIGHT 759
E GAMMA1 760

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART.PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE WITH AIM THE CAMERA AT THE COLOUR CHART.(MONITOR:OPEN)

TO CAMERA CONNECTION
<TO SENSOR/PROCESS>
48 CAM 5V
L701 10µ
C701 6V10

TO CAMERA CONNECTION
<TO PROCESS>
65 PWM A
61 ZM EN
60 ZM DIR
59 ZM CLK
62 ZM RST

TO CAMERA CONNECTION
49 D GND
50 NOREG GND

IC701
TB6526F
ZOOM MOTOR DRIVE
CB CW/CCW OSC SG ENABLE NFA PG-A 1A φA VMA φA 1A
CK1 MODE CA VCC RESET NFB PG-B 1B φB VMB φB 1B
OSC
DECODER
SET POINT CURRENT SELECT
SET POINT CURRENT SELECT
PWM SIGNAL
PWM SIGNAL
C710 0.1
C702 3300P
C705 10V47
R701 3.3
R702 3.3
C703 0.1
C709 0.1
C704 6V10
CL701

Q703 XN4404 (AMP)
Q704 XN4404 (AMP)
L703 10µ
Q701 2SD601A (AMP)

R737 220
R716 4700
R720 10K
R721 10K
R722 100K
C721 1000P
R723 10K
R761 2700
R703 100
R726 470
R727 47K
R728 15K
R729 39K
R735 12K
R734 12K
R736 560K
R730 10K
R733 1M
R741 1M
R740 47K
R731 27K
R732 33K
R738 120K
R751 2200

TO CAMERA CONNECTION
<TO VTR MAIN CONNECTION>
IRIS OPEN 53

R718 22K
C720 1
C719 1000P
IC706
NJM2115VA
C722 0.1

TO CAMERA CONNECTION
<TO PROCESS/VTR MAIN CONNECTION>
FNO 54

IC711
TA75W01FUTL

TO CAMERA CONNECTION
<TO LENS>
31 HALL IN(-)
32 HALL OUT(-)
33 HALL IN(+)
34 HALL OUT(+)
35 D GND
36 ALC MAIN(+)
40 Z BN
39 Z BP
38 Z AP
37 Z AN
41 F ENC VCC
42 LED CTL
45 F BP
46 F BN
43 F AN
44 F AP

R707 100
QR701 UN9211 (ENC LED SW)

TO CAMERA CONNECTION
<TO SENSOR>
HALL GAIN 51
HALL BIAS 52

TO CAMERA CONNECTION
<TO PROCESS>
V REF 63
LED CTL 64

TO CAMERA CONNECTION
<TO PROCESS/SENSOR>
CAM 2.8V 47

L704 10µ
C711 0.1

TO CAMERA CONNECTION
<TO PROCESS>
58 ENABLE
56 CW/CCW
55 CK
57 RESET M

IC702
TB6526F
AF MOTOR DRIVE
CB CW/CCW OSC SG ENABLE NFA PG-A 1A φA VMA φA 1A
CK1 MODE MO VCC RESET NFB PG-B 1B φB VMB φB 1B
OSC
DECODER
SET POINT CURRENT SELECT
SET POINT CURRENT SELECT
PWM SIGNAL
PWM SIGNAL
C706 3300P
R705 2.2
R706 2.2

Q705 XN4404 (AMP)
Q706 XN4404 (AMP)

C707 0.1
Q708 XP4501 (STABLIZER)
Q707 2SB1073 (SWITCHING)
R749 22K
R745 68K
R752 3300
R753 47K

TO CAMERA CONNECTION
<TO VTR MAIN CONNECTION/
POWER/MONITOR/RS232C>
30 NOREG

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

G F E D C B A
1 2 3 4 5 6 7 8 9 10

TO SPK AMP CONNECTION
<TO PP4901>
PP4802

S DATA	1
CR POWER	2
D GND	3
V OUT	4
V 3V	5
REG 5V	6
NOREG	7
D GND	8
A AD IN L	9
D GND	10
A LCH OUT	11
A MUTE	12
S TITLE DI	13
S TITLE RST	14
S TITLE CI	15
WIND SW (H)	16
ST ON (L)	17
SPK ON (L)	18
SPK VOL	19
A RCH OUT	20
D GND	21
A AD IN R	22
D GND	23
NOREG	24
REG 5V	25
V 3V	26
D GND	27
AV 4P SW2	28
REG 5V	29
S CLK	30

S DATA
CR POWER
A AD IN L
A MUTE
S TITLE DI
S TITLE RST
S TITLE CI
WIND SW (H)
ST ON (L)
SPK ON (L)
SPK VOL
A AD IN R
AV 4P SW2
S CLK

TO CAMERA CONNECTION
<TO PP302>
PS3002

LCD 12V	1
REG 5V	2
REG 5V	3
REG 5V	4
REG 3V	5
V 3V	6
DIF 3V	7
REG 2V	8
REG 2V	9
D GND	10
D GND	11
D GND	12
D GND	13
D GND	14
D GND	15
D GND	16
D GND	17
D GND	18
D GND	19
D GND	20
NOREG GND	21
NOREG GND	22
NOREG GND	23
NOREG GND	24
NOREG GND	25
NOREG	26
NOREG	27
NOREG	28
LCD ON (H)	29
P ON (H)	30
V REF	31
TRI WAVE	32
CAP VM	33
CAP VM	34
CAP SW	35
CYL SW	36
CYL VM	37
CYL VM	38
INN BAT (H)	39
BATT (H)	40
CCD ON (H)	41
LCD BL CTL	42
BL BRIGHT (H)	43
NOREG	44
NOREG	45
NOREG GND	46
NOREG GND	47
NOREG GND	48
NOREG GND	49
NOREG GND	50
NOREG GND	51
D GND	52
D GND	53
D GND	54
D GND	55
D GND	56
D GND	57
D GND	58
D GND	59
D GND	60
D GND	61
REG 2V	62
DIF 3V	63
DIF 3V	64
REG 3V	65
REG 3V	66
REG 5V	67
REG 5V	68
REG 5V	69
LCD 12V	70

P ON (H)
V REF
TRI WAVE
CAP SW
CYL SW
INN BAT (H)
BATT (H)
CCD ON (H)
LCD BL CTL
BL BRIGHT (H)

L6502 10µ
C3997 6V22
C6502 6V10
C3999 6V22
C3998 6V22

TO DRIVE
<TO PS2001>
PP2001

S 3V	1
S 3V	2
NOREG GND	3
NOREG GND	4
CYL VM	5
CYL VM	6
CYL SW	7
MIC GND	8
CYL GND	9
CYL GND	10
CAP VM	11
CAP VM	12
CAP FG	13
CAP RSF	14
CYL ERR	15
UNLOAD	16
S PHOTO	17
POS2	18
SNS LED	19
S REEL OUT	20
T REEL IN	21
T PHOTO	22
S TAB	23
MIC DT	24
C DOWN	25
MIC VDD	26
MIC CLK	27
SOLENOID	28
SOLENOID	29
S REEL IN	30
T REEL OUT	31
POS3	32
POS1	33
LOAD	34
TORQU LIMIT	35
CAP ERR	36
CYL ON	37
DRIVE CLK	38
CYL PG	39
CYL FG	40
CAP GND	41
CAP GND	42
D GND	43
D GND	44
TRI WAVE	45
CAP SW	46
NOREG	47
NOREG	48
S 5V	49
S 5V	50

CYL SW
CAP FG
CAP RSF
CYL ERR
UNLOAD
S PHOTO
POS2
SNS LED
SREEL OUT
TREEL IN
T PHOTO
S TAB
C DOWN
MIC VDD
SOLENOID
SREEL IN
TREEL OUT
POS3
POS1
LOAD
TORQU LIMIT
CAP ERR
CYL ON
DRIVE CLK
TRI WAVE
CAP SW

C6503 6V10
L6503 10µ

L6501 10µ
C6501 0.1
R6505 4700
R6506 4700
IC6501 TC7W241FU
IC6502 TC7W241FU
EVR SCK
JIG SCK
EVR SBI
JIG SBI
JIG SBO
EVR SBO
R6515 4700
IC6503 TC7W241FU
CAM SI
CAM CLK
IC6505 TC7SH08FU
IC6506 TC7SH08FU

TO TOP OPERATION
<TO FP6801>
FP6001

REW/SER(-)	1
FF/SER(+)	2
SCAN4	3
PLAY/BLC	4
STOP/FADE	5
PAUSE	6
SCAN3	7

SCAN4
SCAN3

TO REAR OPERATION
<TO FP6701>
FP6002

DEW	1
D GND	2
POWER SW	3
VCR LED	4
CAM/VCR	5
SCAN3	6
CAM LED	7
EJECT	8
ZOOM AD	9
V REF 2.7V	10
V REF 1.0V	11
S/S	12
SCAN2	13
PHOTO SHOT	14

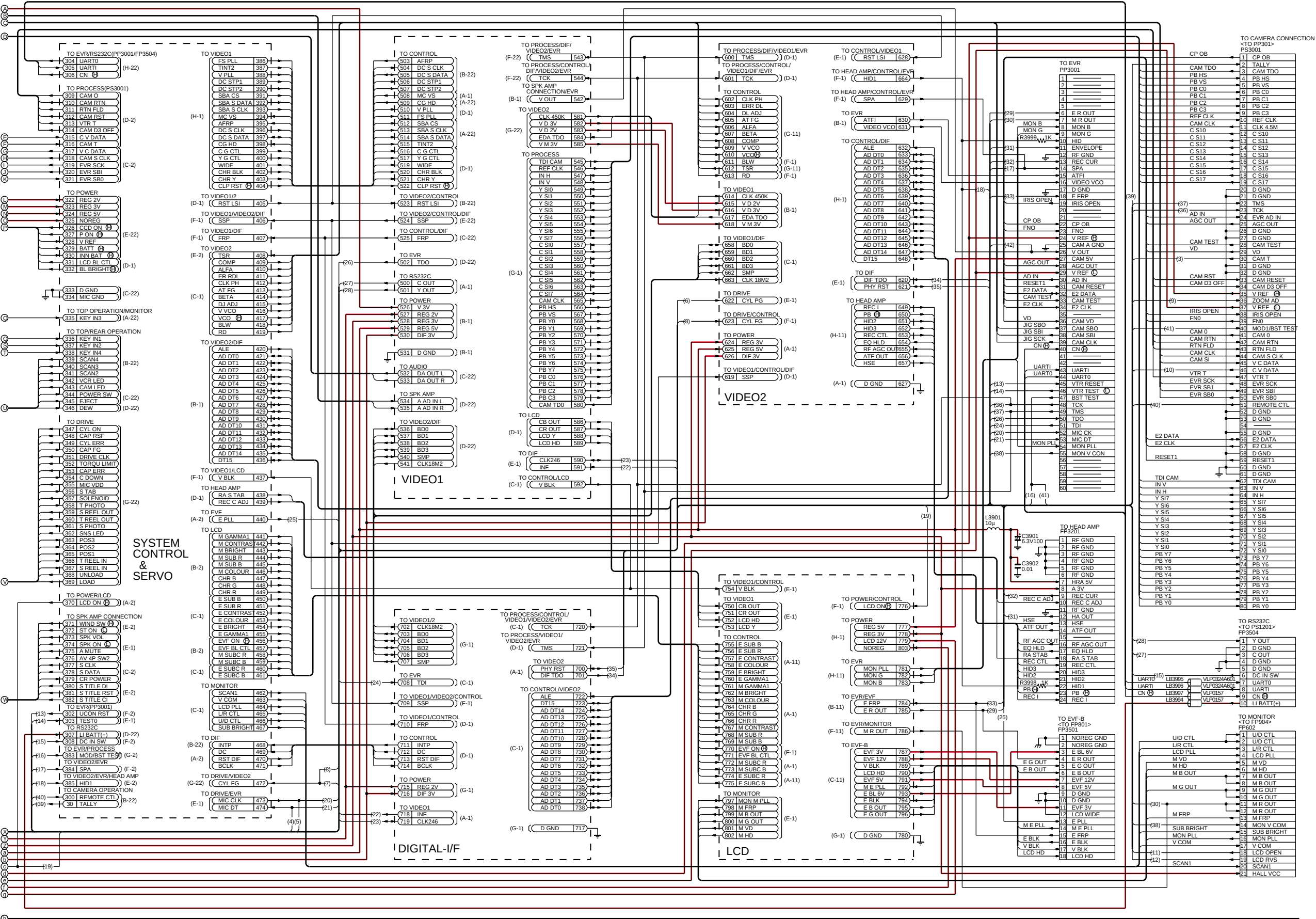
DEW
POWER SW
VCR LED
SCAN3
CAM LED
EJECT
SCAN2

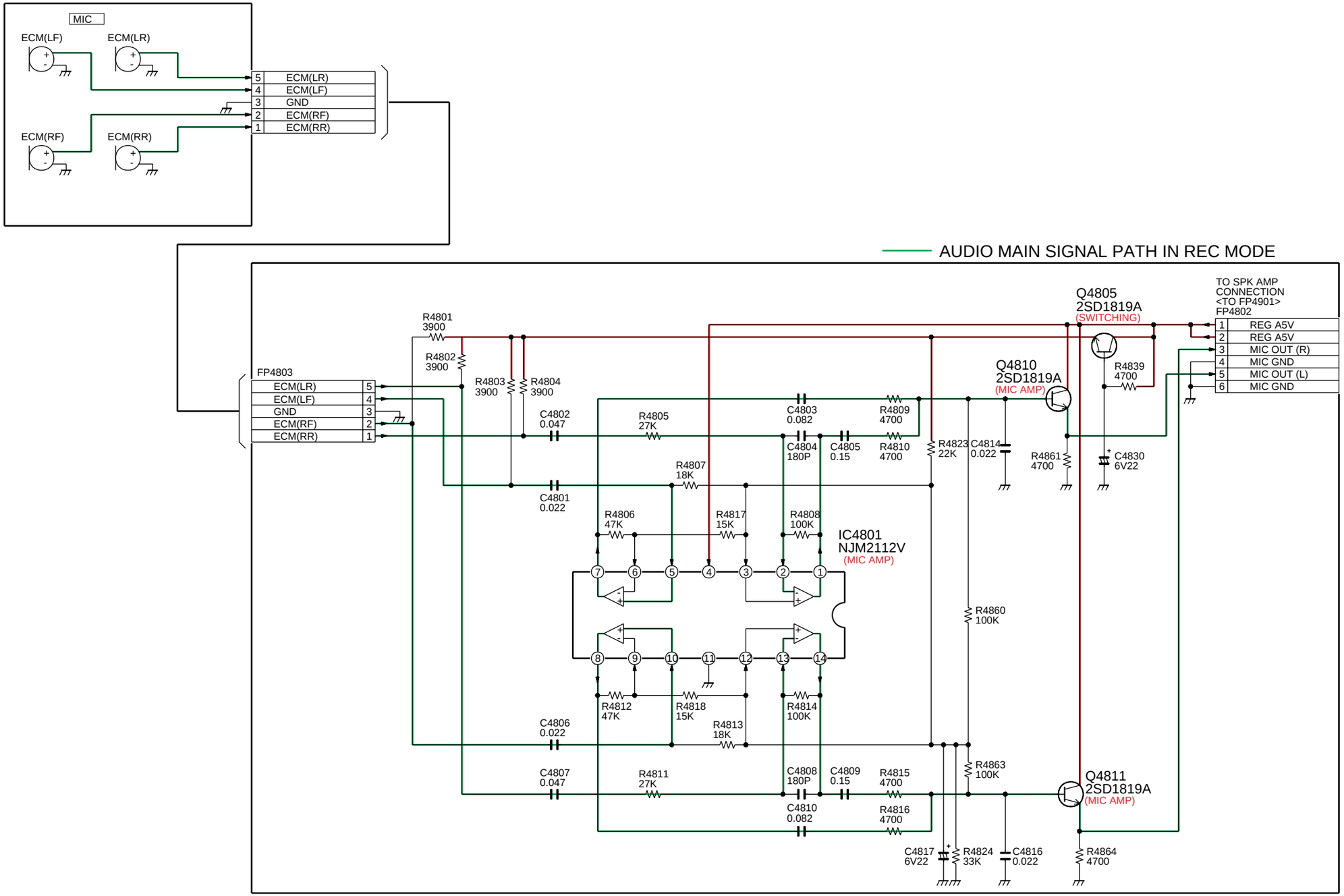
D6501 MA132WA
D6502 MA132WA
D6503 MA132WA
D6504 MA132WA
D6505 MA132A
D6506 MA132WA
R6510 0

TO POWER
280 REG 5V (B-4)
281 D GND (B-4)
TO SPK AMP
(1) 282 A LCH OUT
(2) 283 A RCH OUT (C-1)
TO VIDEO1 (C-4)
DA OUT L 284
DA OUT R 285
AUDIO

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)


SYSTEM CONTROL & SERVO
VIDEO1
VIDEO2
DIGITAL-I/F
LCD
TO EVR/RS232C(PP3001/FP3504)
TO PROCESS(PS3001)
TO POWER
TO TOP OPERATION/MONITOR
TO TOP/REAR OPERATION
TO DRIVE
TO POWER/LCD
TO SPK AMP CONNECTION
TO EVR(PP3001)
TO RS232C
TO EVR/PROCESS
TO VIDEO2/EVR
TO VIDEO2/EVR/HEAD AMP
TO CAMERA OPERATION
TO VIDEO1
TO VIDEO1/2
TO VIDEO1/VIDEO2/DIF
TO VIDEO1/DIF
TO VIDEO2
TO VIDEO2/DIF
TO VIDEO1/LCD
TO HEAD AMP
TO EVF
TO LCD
TO MONITOR
TO DRIVE/VIDEO2
TO DRIVE/EVR
TO CONTROL
TO VIDEO2/CONTROL
TO VIDEO2/CONTROL/DIF
TO CONTROL/DIF
TO EVR
TO RS232C
TO POWER
TO AUDIO
TO SPK AMP
TO VIDEO2/DIF
TO PROCESS/DIF/VIDEO2/EVR
TO PROCESS/CONTROL/DIF/VIDEO2/EVR
TO SPK AMP CONNECTION/EVR
TO VIDEO2
TO PROCESS
TO LCD
TO DIF
TO CONTROL/LCD
TO PROCESS/DIF/VIDEO1/EVR
TO PROCESS/CONTROL/VIDEO1/DIF/EVR
TO CONTROL
TO VIDEO1
TO VIDEO1/DIF
TO DRIVE
TO DRIVE/CONTROL
TO POWER
TO VIDEO1/CONTROL/DIF
TO CONTROL/VIDEO1
TO HEAD AMP/CONTROL/EVR
TO HEAD AMP/CONTROL/EVF
TO EVR
TO CONTROL/DIF
TO DIF
TO HEAD AMP
TO EVR PP3001
TO HEAD AMP FP3201
TO VIDEO1/CONTROL
TO VIDEO1
TO CONTROL
TO VIDEO1/DIF
TO DRIVE
TO DRIVE/CONTROL
TO POWER
TO VIDEO1/CONTROL/DIF
TO POWER/CONTROL
TO POWER
TO EVR
TO EVR/EVF
TO EVR/MONITOR
TO EVF-B
TO VIDEO1/2
TO PROCESS/CONTROL/VIDEO1/VIDEO2/EVR
TO PROCESS/VIDEO1/VIDEO2/EVR
TO VIDEO2
TO CONTROL/VIDEO2
TO EVR
TO VIDEO1/VIDEO2/CONTROL
TO VIDEO1/CONTROL
TO CONTROL
TO POWER
TO VIDEO1
TO CAMERA CONNECTION <TO PP301> PS3001
TO RS232C <TO PS1201> FP3504
TO MONITOR <TO FP904> FP602
TO EVF-B <TO FP801> FP3501
R3999 1K
R3998 1K
L3901 10µ
C3901 6.3V100
C3902 0.01



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

VIDEO MAIN SIGNAL PATH

TO BACK LIGHT FP902
NOREG 1
NOREG 2
M 5V 3
BL BRIGHT (H) 4
A GND 5
NOREG GND 6
NOREG GND 7
NOREG GND 8
(LCD BL CTL(H):ON)
C902 1
QR901 XP4314
L901 22µ
C901 1
(M 5V:ON)

TO CAMERA CONNECTION <TO FP304> FP903
NOREG 1
NOREG 2
NOREG 3
NOREG 4
LCD BL CTL 5
NOREG GND 6
NOREG GND 7
NOREG GND 8
NOREG GND 9
BL BRIGHT (H) 10
M 13.5V 11
M 5V 12
M 5V 13
M 3V 14
M 3V 15
M -15V 16
A GND 17
A GND 18
A GND 19
A GND 20
A GND 21
C923 0.1
C925 0.1
C926 0.1
C924 0.1

TO VTR MAIN CONNECTION <TO FP602> FP904
HALL VCC 1
HALL VCC 2
SCAN1 3
LCD RVS 4
LCD OPEN 5
V COM 6
MON PLL 7
SUB BRIGHT 8
MON V COM 9
M FRP 10
M R OUT 11
M R OUT 12
M G OUT 13
M G OUT 14
M B OUT 15
M B OUT 16
M HD 17
M VD 18
LCD PLL 19
L/R CTL 20
U/D CTL 21

Q905 XP4601 (AMP)
R960 22K
Q906 XP4601 (AMP)
R961 22K
R955 56K
D902 MA111
C919 0.33
R911 4700
R930 33K
R906 4700
C922 0.1
R907 47K
R905 68K
R904 22K
R910 100K
IC903 TA75S558F
R908 120K
R912 470
R909 33K
IC902 TA75S558F
CL901
C905 0.1
D901 MA329
R903 68K
C907 0.1
R902 1M
C906 560P
R901 10K
C903 470P
L902 10µ
C904 15P
C928 6V10
L910 10µ
R921 100
R920 100
R919 100
L908 10µ
L907 10µ
C931 470P
C932 470P
C933 470P
C916 6V10
C917 1
C909 6V10
C908 0.1
L903 10µ
L904 10µ
C910 1
IC904 TC7S14FU
C930 470P
R959 100K
IC905 TC7S04FU
R928 33K

IC901 CM7018L3 (LCD DRIVER)
XHD 37
SYC 38
S/LB 39
TE7 40
NT/PB 41
CLR 42
VDD 43
DOWN 44
TE4 45
RIGHT 46
TE8 47
POCB 48
TE6 36
UFIX 35
XVD 34
SYF 33
PD 32
GND 31
TE3 30
TE2 29
TE1 28
OSCI 27
OSCO 26
TO1 25
MCLK 24
OE 23
SRT1 22
SRT2 21
SRT3 20
VDD 19
RIGHTO 18
RESET 17
GSRT 16
GPCK 15
GRES 14
DOWNO 13
PHO IN 1
PHO OUT 2
TO2 3
HDB 4
VSYB 5
GND 6
PS1 7
PS2 8
SW 9
TO3 10
FRP 11
HCN 12
R917 0
R916 0
C911 2200P

TO LCD PANEL FP901
26 VSH
25 VDD
24 VR
23 VB
22 VG
21 VSS
20 MODE1
19 MCLK
18 HCNT
17 CLR
16 OE
15 SRTL
14 SRTR
13 VBC
12 CS
11 V COM
10
9 MODE2
8 RESET
7 GSRT
6 GPCK
5 GRES
4 V REF (L)
3 VGL
2 V REF (H)
1 VGH
R942 100K

Q901 2SD2216 (SWITCHING)
Q902 2SD2216 (SWITCHING)
R922 56K
R923 56K
L905 10µ
R924 33K
R927 0
R925 0
R926 56K
Q903 2SD2216 (RVS(L):OFF)
C912 6V10
QR902 UN9213 (INV.)
L909 10µ
L906 10µ
C913 1
C918 35V2.2
C914 1000P
R939 10K
R940 10K
Q904 2SD2216 (SWITCHING)
R918 6800
C920 10V4.7
R931 6800

IC906 TA75S558F
R941 22
C915 10
R932 22K
R933 10K
R934 47K
R936 100K
IC907 TA75S558F
R938 6800
R937 10K
R935 10K
C927 0.1

IC992 DN8797MS
IC991 DN8797MS
FP905
RVS (L) 1
RVS GND 2
RVS VCC 3
OPEN (H) 4
OPEN GND 5
OPEN VCC 6
HALL SENSOR FLEX.C.B.A. VEP06C69A

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

CAMERA/POWER C.B.A. (1)

Integrated Circuit

IC101	A-3	F
IC201	C-5	C
IC202	B-3	F
IC203	B-4	C
IC204	B-5	C
IC205	B-5	C
IC301	B-3	C
IC302	B-4	F
IC303	B-2	C
IC304	B-4	F
IC305	C-1	C
IC306	C-2	C
IC307	C-5	F
IC308	B-1	C
IC310	B-1	C
IC701	A-3	C
IC702	B-4	C
IC711	C-3	C
IC1001	C-3	C
IC1002	A-2	F
IC1003	B-5	C

Transistor

Q101	A-3	F
Q201	B-4	C
Q301	C-1	C
Q303	B-3	F
Q701	C-3	C
Q703	A-3	C
Q704	B-3	C
Q705	B-4	C
Q706	B-4	C
Q707	B-6	C
Q708	B-6	C
Q1002	C-6	C
Q1003	C-6	C
Q1004	C-5	C
Q1005	C-6	C
Q1006	C-6	C
Q1007	C-6	C
Q1011	C-1	F
Q1021	B-1	F
Q1022	B-1	F
Q1031	B-1	F
Q1041	A-1	F
Q1042	A-1	F
Q1051	C-1	F
Q1052	C-5	C
Q1053	C-6	C
Q1054	C-6	C
Q1055	C-5	C
Q1061	D-1	F
Q1062	D-1	F
Q1101	C-3	F

Transistor & Resistor

QR101	A-3	F
QR301	A-3	F
QR302	B-3	C
QR303	A-2	C
QR304	B-2	C
QR305	A-3	C
QR306	B-2	C
QR307	A-1	C
QR701	B-3	C
QR1001	B-2	F
QR1002	A-2	F
QR1004	D-2	F
QR1005	C-6	C
QR1006	C-6	C
QR1007	C-6	C
QR1008	C-6	C
QR1101	C-2	F

Test Point

CL201	B-3	F
CL202	A-3	F
CL301	B-5	F
CL302	B-5	F
CL303	B-5	F
CL304	B-5	F
CL305	B-3	C
CL306	B-3	C
CL307	B-3	C
CL308	B-3	C
CL309	B-3	C
CL310	B-1	C
CL311	B-1	C
CL315	A-5	F
CL316	C-5	C
CL1006	B-7	C
CL1011	B-7	C
CL1021	B-7	C
CL1031	B-7	C
CL1041	A-7	C
CL1051	C-7	C
CL1052	C-5	C
CL1061	D-7	C
CL1062	D-6	C
TL101	B-5	C

Diode

D201	A-3	F
D202	B-5	C
D203	A-3	F
D204	C-3	F
D205	C-3	F
D301	B-1	C
D302	C-7	F
D303	B-1	C
D305	B-3	C
D306	C-1	C
D333	C-7	F
D1001	C-1	F
D1002	C-1	F
D1051	B-6	C
D1052	C-1	F
D1061	D-1	F
D1062	D-7	C
D1101	C-3	F
D1102	B-2	F
D1151	C-5	C
D1152	C-5	C

Filter

FL201	B-5	C

Connector

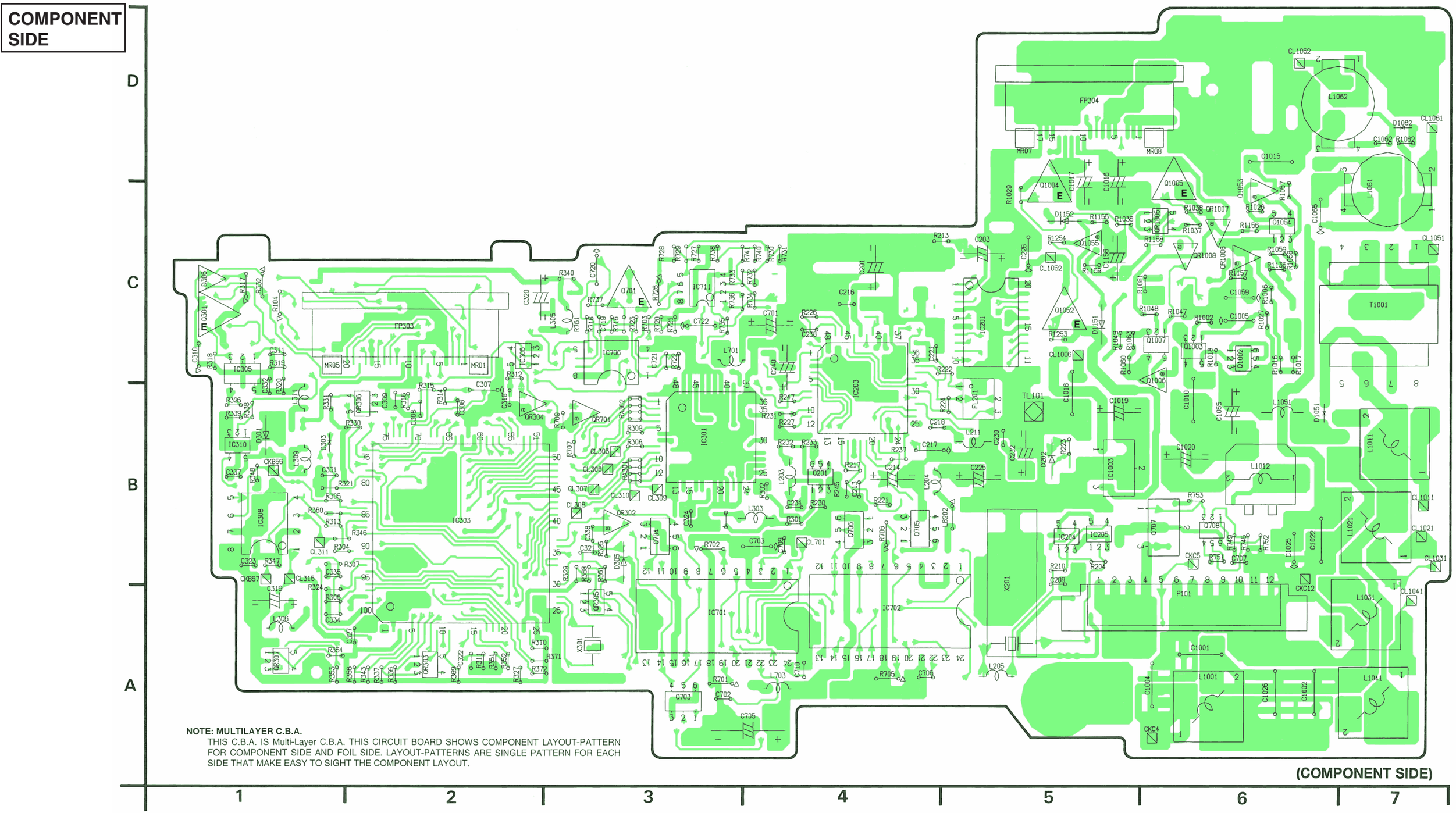
FP303	C-2	C
FP304	D-5	C
FP701	C-5	F
P101	A-6	C
PP301	C-6	F
PP302	D-2	F
PS201	C-4	F

Coil

L201	A-2	F
L202	B-3	F
L203	B-4	C
L204	B-4	C
L205	A-5	C
L208	C-3	F
L211	B-5	C
L214	B-3	F
L301	B-4	F
L302	B-4	F
L303	B-4	C
L304	A-4	F
L305	C-3	C
L306	A-1	C
L307	B-3	F
L308	B-4	F
L309	B-1	C
L310	B-6	F
L311	B-1	C
L312	B-7	F
L701	C-3	C
L703	A-4	C
L704	B-4	F
L1001	A-6	C
L1011	B-7	C
L1012	B-6	C
L1021	B-7	C
L1031	A-7	C
L1041	A-7	C
L1051	B-6	C
L1061	C-7	C

ADDRESS INFORMATION **C** ... COMPONENT SIDE **F** ... FOIL SIDE

COMPONENT SIDE



CAMERA/POWER C.B.A. (2)

| | | |

ORDER NO. VMD9706005A8

Service Manual

Disassembly/Assembly Procedures

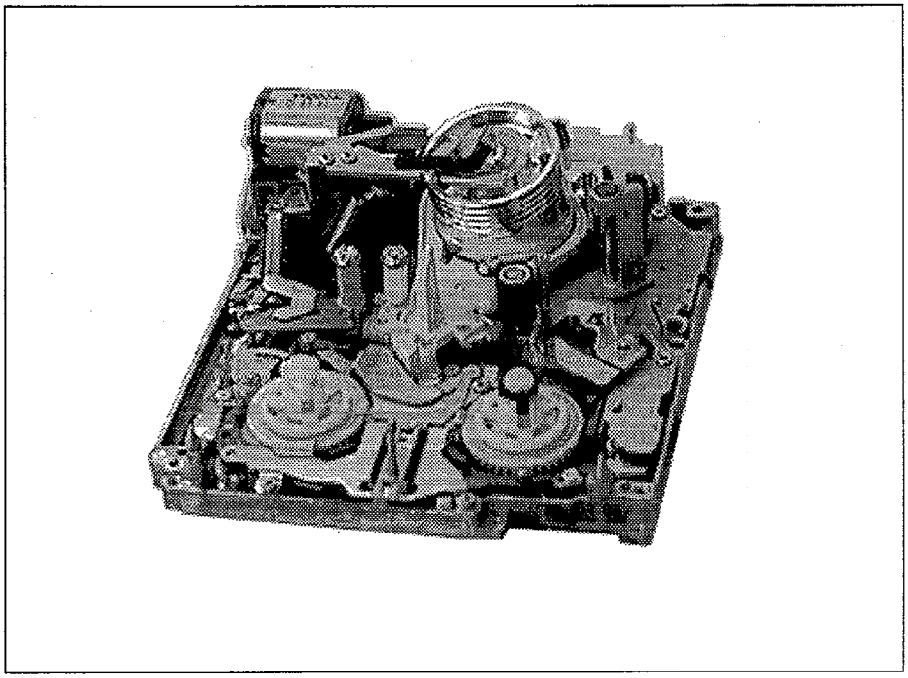
Mechanical Adjustment Procedures

Exploded Views/Parts List

Panasonic Mini DV PAL

Digital Video Camera

DJ MECHANISM CHASSIS



INTRODUCTION

The DJ-Mechanism chassis are built in several Panasonic Digital Video Camera from NV-DX1 series in 1996.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

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1. Mechanical Parts Location

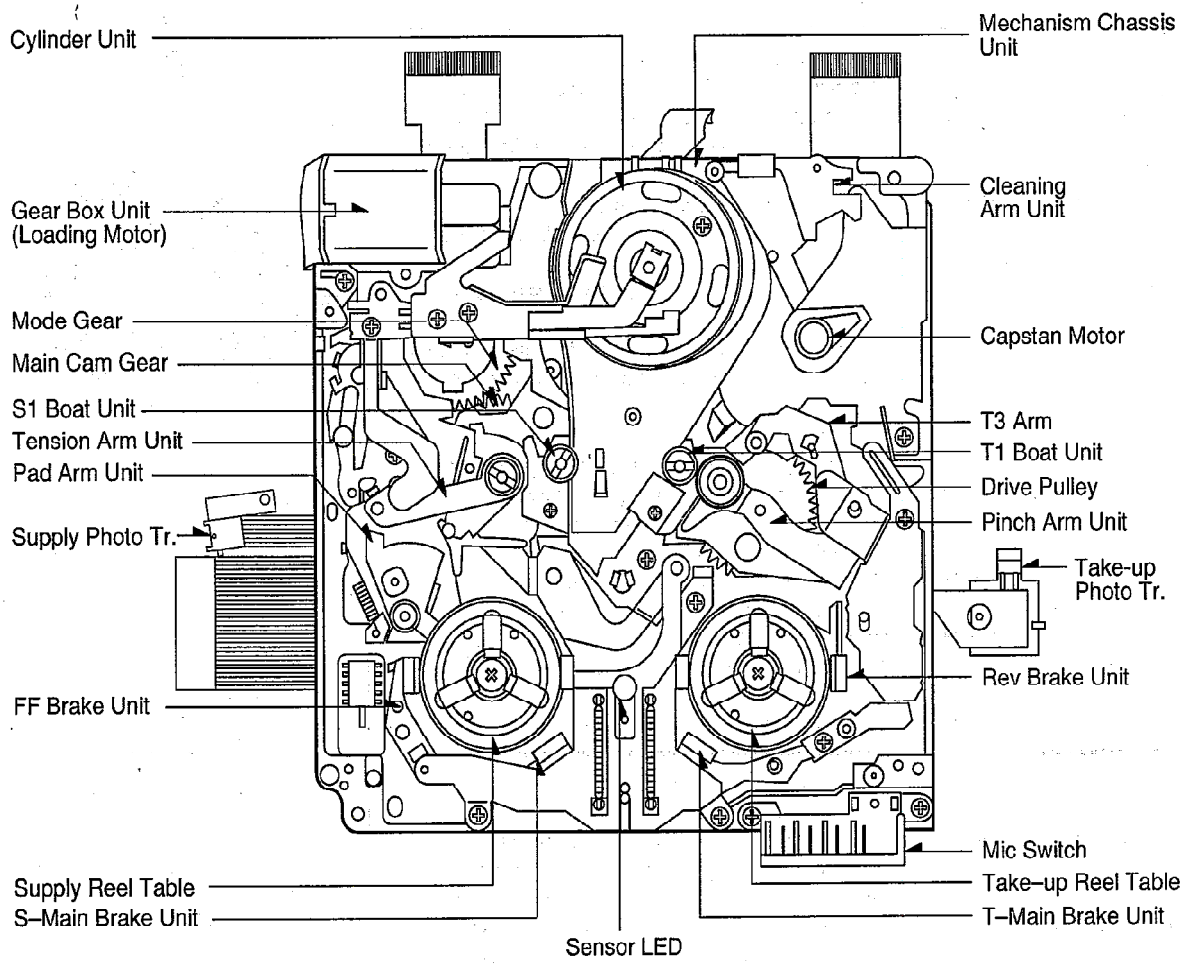


Fig. 1

2. Disassembly/Assembly Procedures of Mechanism

This procedure starts with the condition that the mechanism unit has been removed from the unit.
The following chart indicates disassembly steps of the mechanical parts in order to gain access to part for servicing. When reassembling, perform the steps in the reverse order. Then apply the Molyton Grease to the lubrication point.

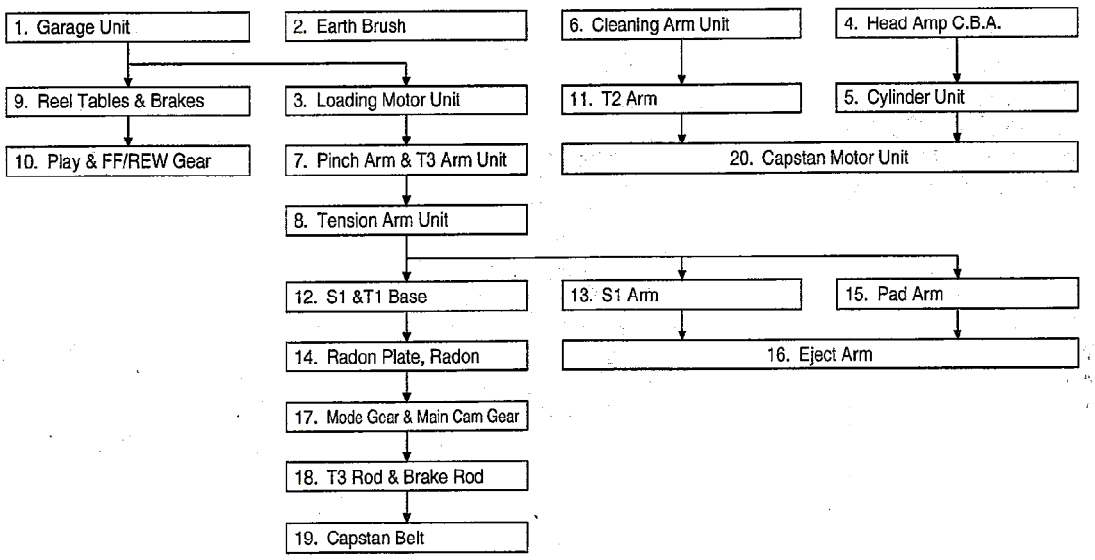
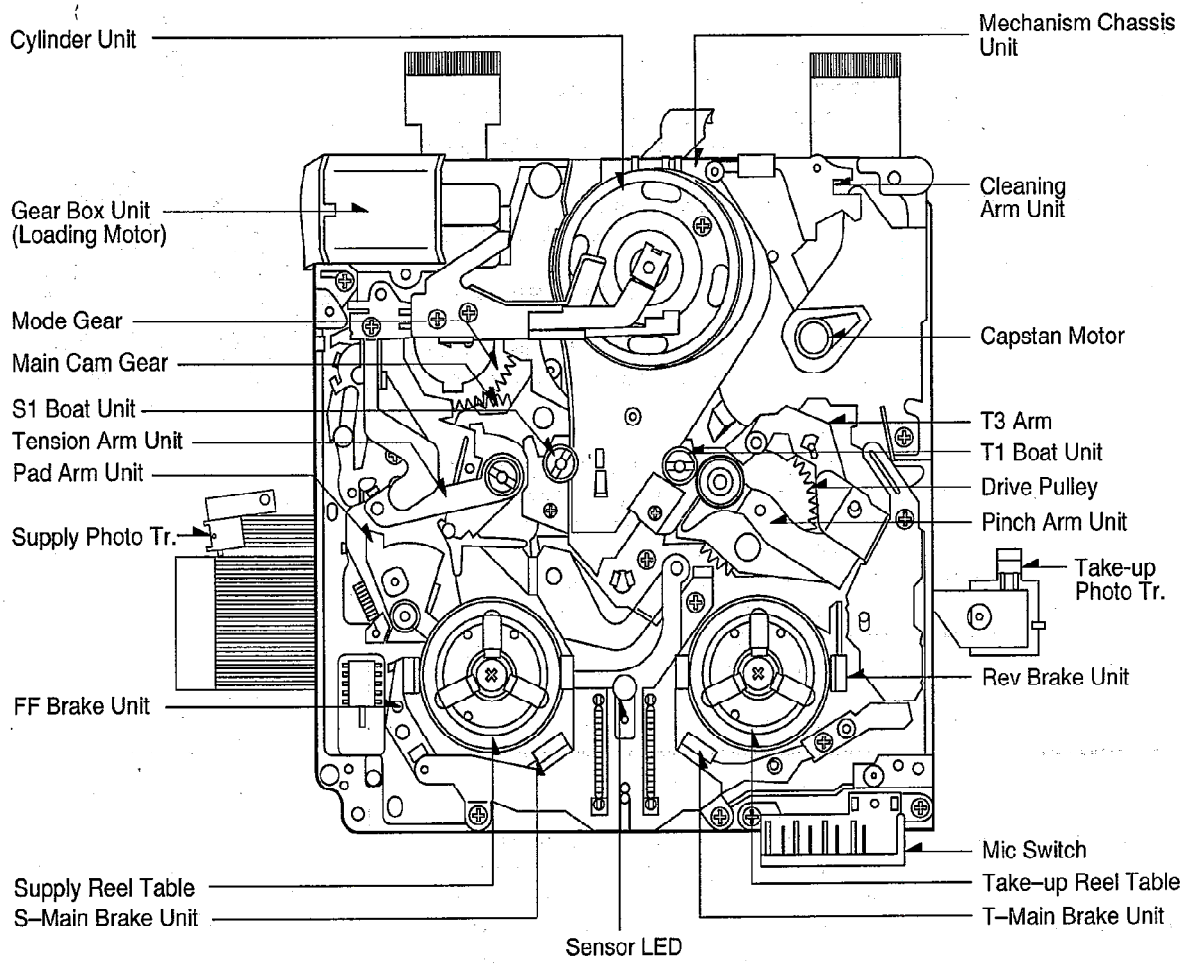

1. Garage Unit
2. Earth Brush
6. Cleaning Arm Unit
4. Head Amp C.B.A.
9. Reel Tables & Brakes
3. Loading Motor Unit
11. T2 Arm
5. Cylinder Unit
10. Play & FF/REW Gear
7. Pinch Arm & T3 Arm Unit
20. Capstan Motor Unit
8. Tension Arm Unit
12. S1 &T1 Base
13. S1 Arm
15. Pad Arm
14. Radon Plate, Radon
16. Eject Arm
17. Mode Gear & Main Cam Gear
18. T3 Rod & Brake Rod
19. Capstan Belt

Fig. 2

1. Mechanical Parts Location



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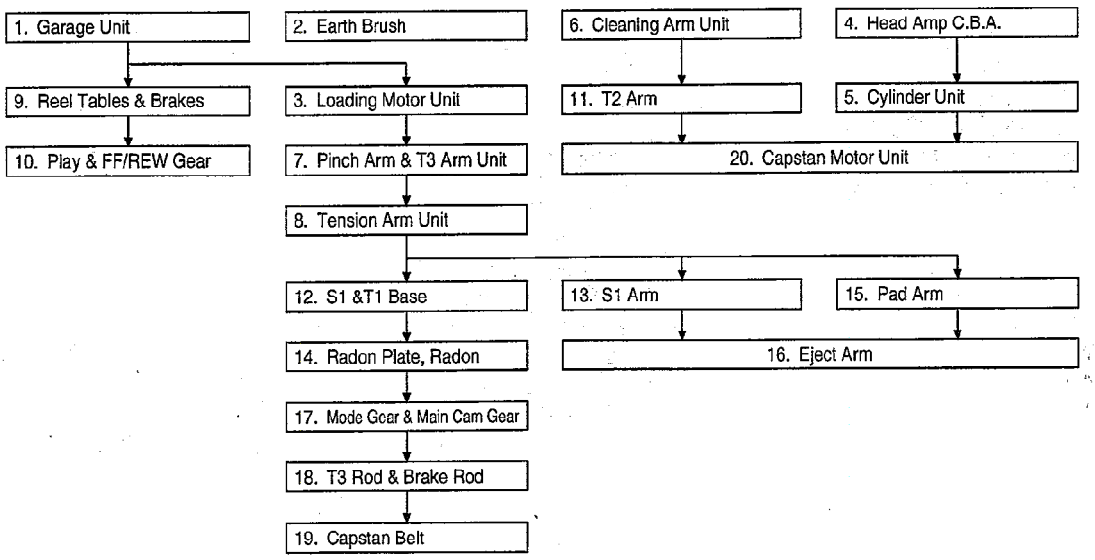
1. Garage Unit
2. Earth Brush
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8. Tension Arm Unit
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13. S1 Arm
15. Pad Arm
14. Radon Plate, Radon
16. Eject Arm
17. Mode Gear & Main Cam Gear
18. T3 Rod & Brake Rod
19. Capstan Belt

Fig. 2

1. Garage Unit	Fig. M1	Slide the Lock Lever using tweezers to eject the Garage Unit.
(Manual Eject)	Fig. M2	Unscrew 2 screws (A) and remove Supply and Take-up Photo Transistors from Garage Unit. Unscrew 4 screws (B) and remove the Garage Unit.
2. Earth Brush	Fig. M3	Unscrew 2 screws (C) and remove the Earth Brush.
(Note of installation)	Fig. M4	When installing the Earth Brush, align the Earth Brush tip position.
3. Loading Motor Unit	Fig. M5	Unsolder the soldered portion (D). Unscrew 2 screws (E) and remove the Loading Motor Unit.
4. Head Amp C.B.A.	Fig. M6	Unscrew screw (F) and remove the Capstan Cover. Disconnect FP5001. Unscrew 2 screws (G) and remove the Head Amp C.B.A..
5. Cylinder Unit	Fig. M7	Unscrew 3 screws (H) and remove the Cylinder Unit carefully. Do not touch the Video Head.
6. Cleaning Arm Unit	Fig. M8	Unlock the locking portion of the Cleaning Arm Unit.
(Note of installation)	Fig. M9	Hooking portion of the Cleaning Arm Spring is; Spring (a) —— Cleaning Arm Spring (a') Spring (b) —— T2 Arm Unit (b')
7. Pinch Arm & unlock T3 Arm Unit	Fig. M10	Unscrew screw (I), then slide the Pinch Pressure Plate and unlock the locking portion.
	Fig. M11	Remove the T3 Arm Unit.
(Note of installation)		After installed T3 Arm Unit, the Height Adjustment is required.
	Fig. M12	Remove the Pinch Arm Unit and Pinch Arm Spring.
(Note of installation)		Hooking portion of the Pinch Arm Spring is; Spring (c) —— Pinch Arm (c') Spring (d) —— T3 Rod (d')
8. Tension Arm Unit	Fig. M13	Turn the Mode Gear to counter-clockwise until Tension Arm Unit slightly move to loading direction. Remove the Tension Arm Unit and Cut Washer (J).
(Note of installation)		The projection (e) on Tension Arm meets guide (e') on the T3 Rod which is shifted by turning Mode Gear.
9. Reel Tables & Brakes	Fig. M14	Unhook the hooking portion (f) and (f'). Unscrew 3 screws (K) and remove Cover Plate.
	Fig. M15	Remove Supply and Take-up Reel Tables.

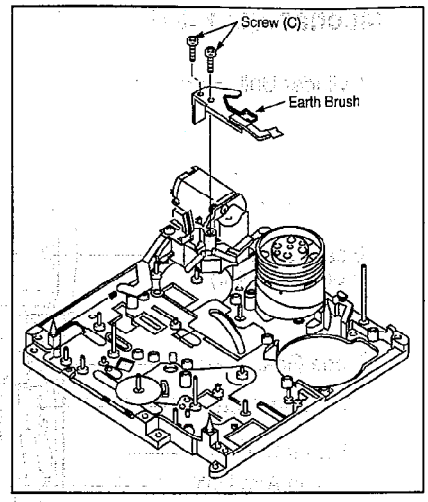


Fig. M3

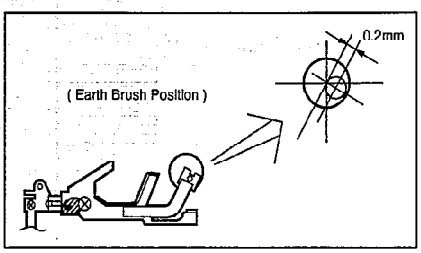


Fig. M4

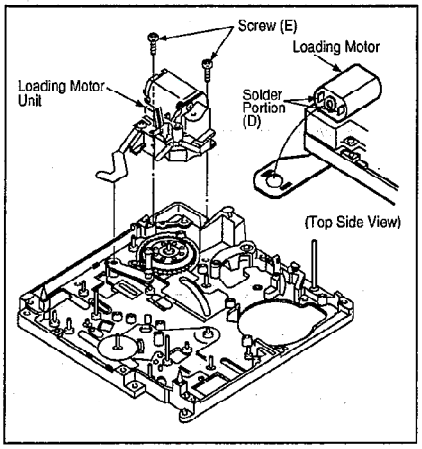


Fig. M5

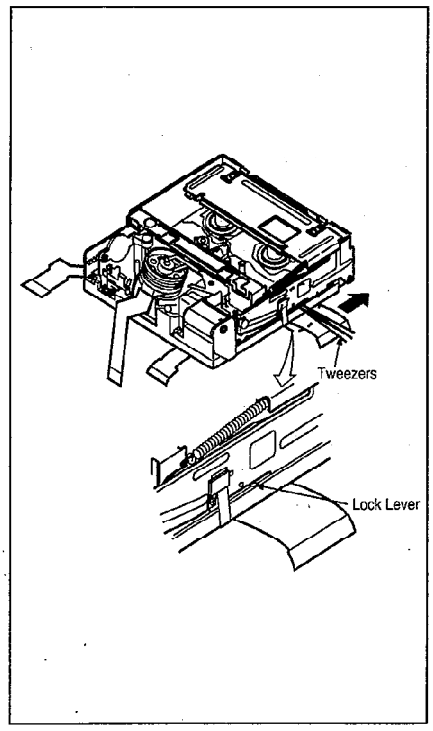


Fig. M1

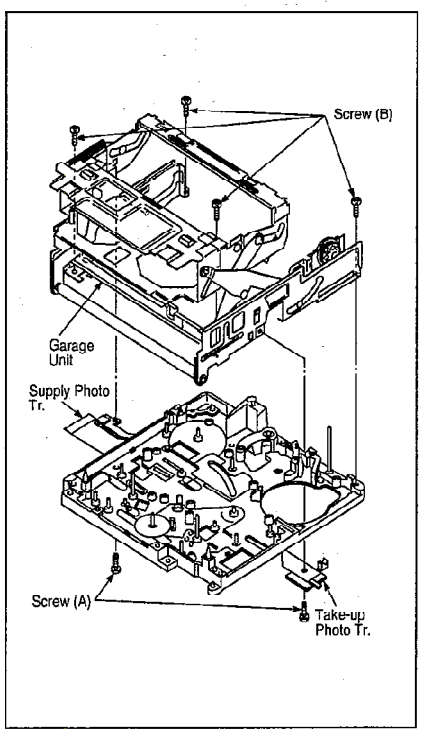


Fig. M2

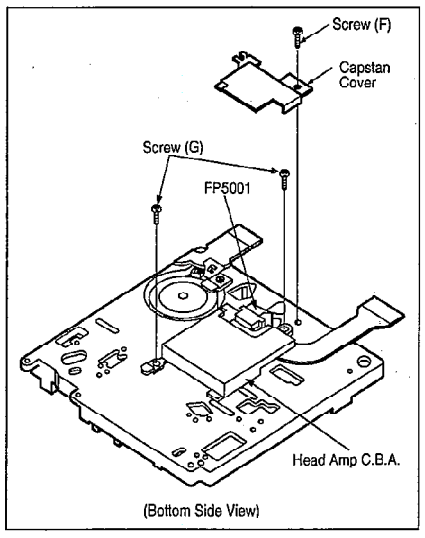


Fig. M6

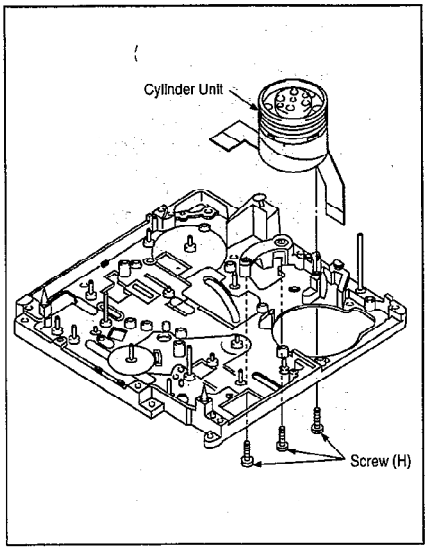


Fig. M7

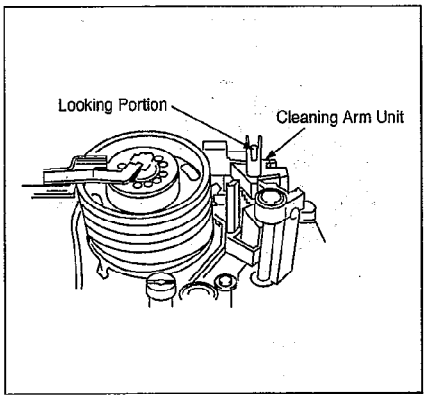


Fig. M8

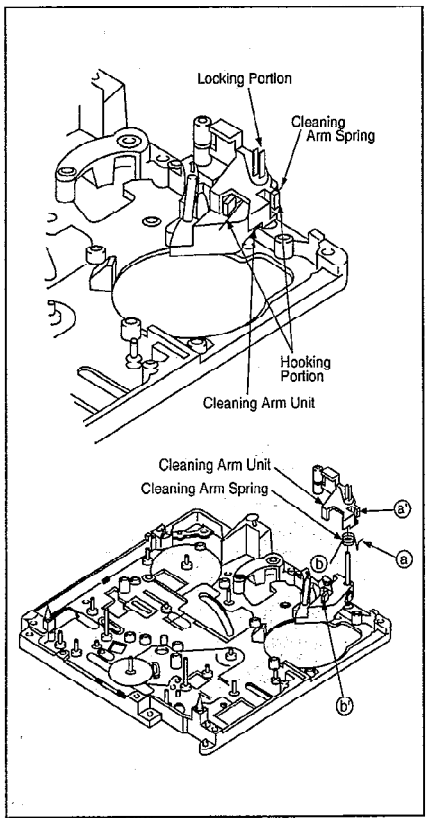


Fig. M9

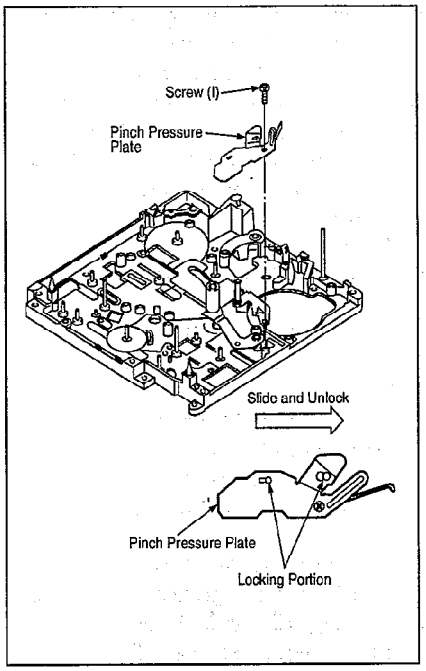


Fig. M10

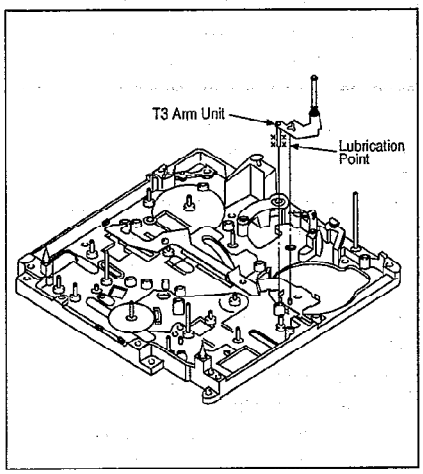


Fig. M11

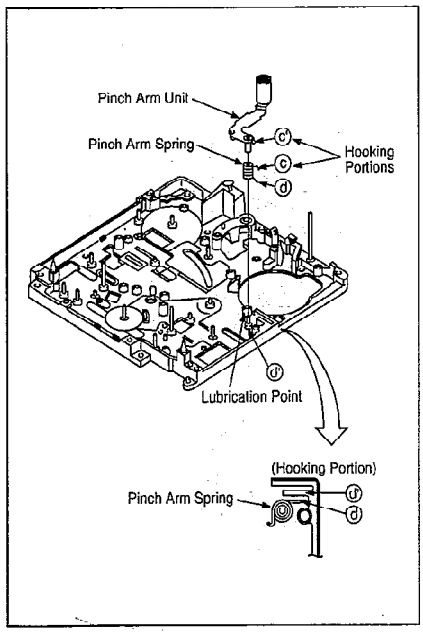


Fig. M12

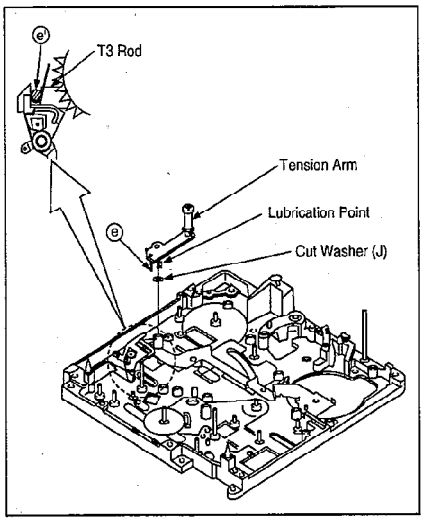


Fig. M13

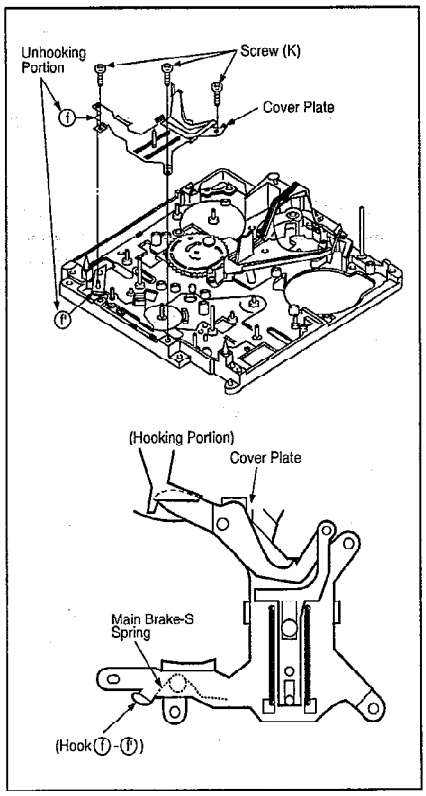


Fig. M14

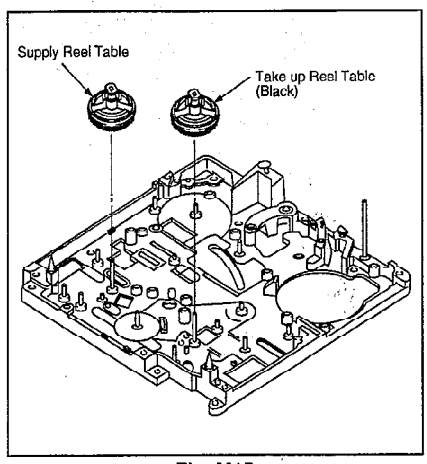


Fig. M15

	Fig. M16	Unhook the hooking portion (g) and (g') of the Review Brake Spring and remove Review Brake.
	Fig. M17	Remove the FF Brake and FF Brake Spring.
(Note of installation)		Confirm the hooking portion of the FF Brake Spring.
	Fig. M18	Remove the Main Brake S and Main Brake-S Spring.
(Note of installation)		Confirm the hooking portion of the Main Brake-S Spring.
	Fig. M19	Remove the Cut Washer (L) and Main Brake T Unit.
(Note of installation)		Confirm the hooking portion of the Main Brake T Spring.
10. Play & FF/REW Gear	Fig. M20	Remove the Play Idler and Play Gear.
11. T2 Arm Unit	Fig. M21	Remove the Cut Washer (M) and T2 Arm Unit with Spring.
(Note of installation)		Confirm the hooking portion of the T2 Arm Spring.
12. S1 &T1 Base	Fig. M22	Turn the Mode Gear to counter-clockwise until half loading position. Hold (N) and (O) positions on S1 and T1 Arm units and unlock the locking portions (A) and (B) with tweezers.
	Fig. M23	Remove 2 screws (P) and Cylinder Base Unit with S and T Boat Units. Then remove S and T Boat Units from the Cylinder Base Unit.
(Note of installation)		After install the Cylinder Base Unit, S and T Boat move to completed loading position by finger and turn the Mode Gear to clockwise until half loading position. Then connect the locking portion (A) and (B).
13. S1 Arm	Fig. M24	Turn the Mode Gear to fully counter-clockwise. Remove the Cut Washer (Q) and S1 Arm Unit.
14. Radon Plate, Radon Arm & T1 Arm	Fig. M25	Unscrew 2 screws (R) and remove Radon Plate.
	Fig. M26	Unscrew screw (S) and remove Radon Arm Unit.
(Note of installation)		When installing the T1 Arm Unit, the projection (j) on the Radon Arm Unit is aligned to guide (j') on the T1 Arm Unit by pushing the T1 Arm Unit.
	Fig. M27	Remove the T1 Arm Unit.
15. Pad Arm	Fig. M28	Unhook the hooking portion (k') of the Pad Arm Spring. Remove the Cut Washer (T) and Pad Arm Unit.
(Note of installation)		Confirm the hooking portion of the Pad Arm Spring (k —— k').
16. Eject Arm	Fig. M29	Unscrew 2 screws (U) and remove the Eject Arm Unit.
17. Mode Gear & Main Cam Gear	Fig. M30	Remove the Main Cam Gear. Unsolder the soldered portion (l) on the Mechanism Flexible Board. Then remove the Mode Gear.
(Note of installation)		The projection (m) on the Mode Gear meets the hole (m') on the Mechanism Chassis. Push the Brake and T3 Rod in fully left direction.

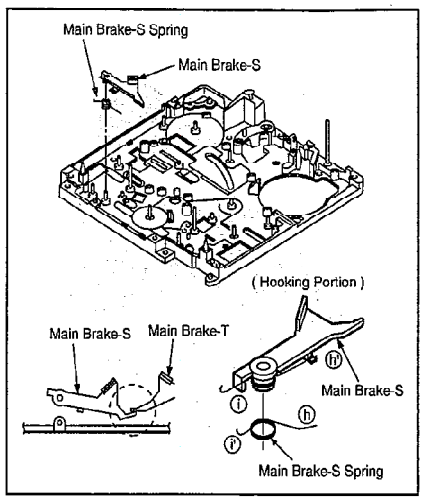


Fig. M18

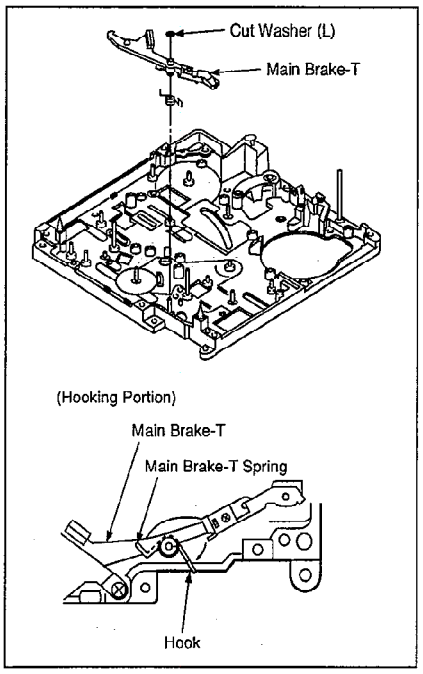


Fig. M19

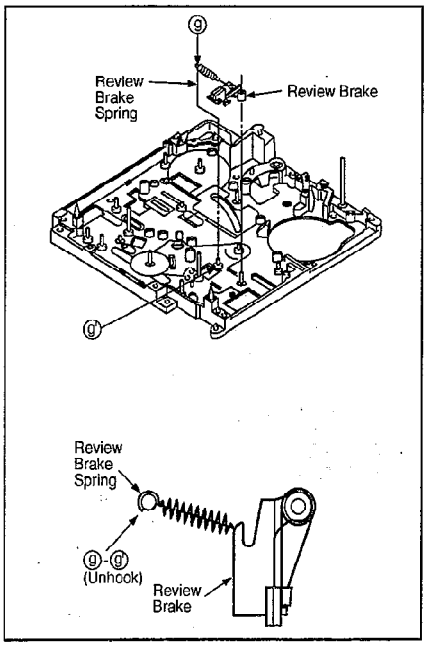


Fig. M16

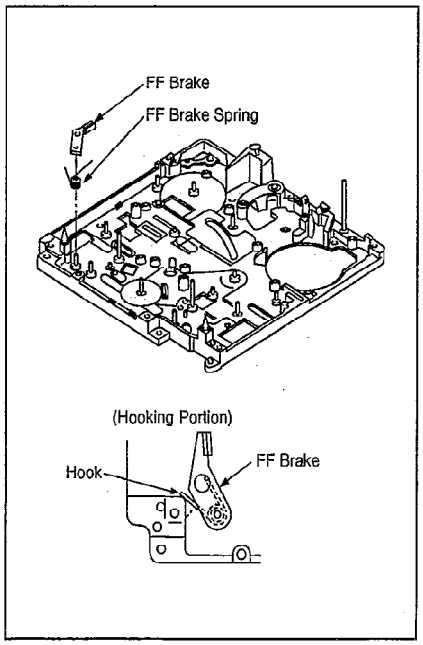


Fig. M17

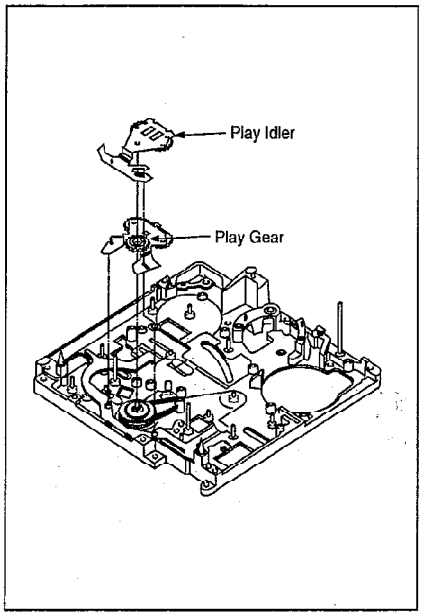


Fig. M20

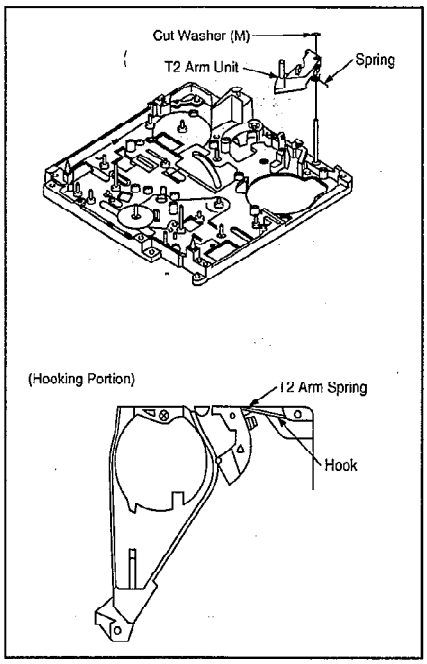


Fig. M21

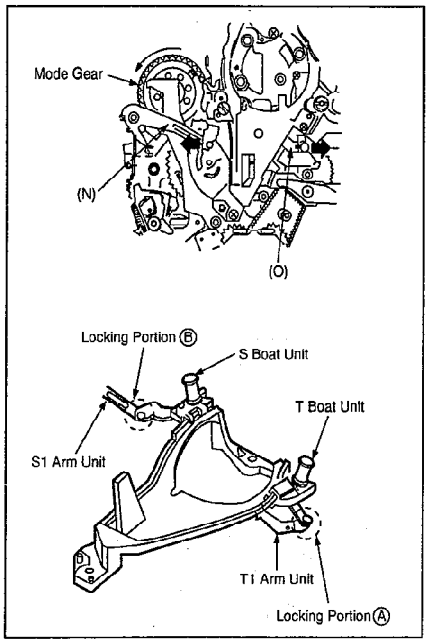


Fig. M22

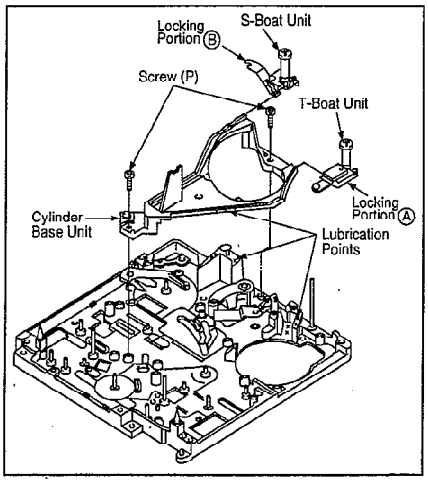


Fig. M23

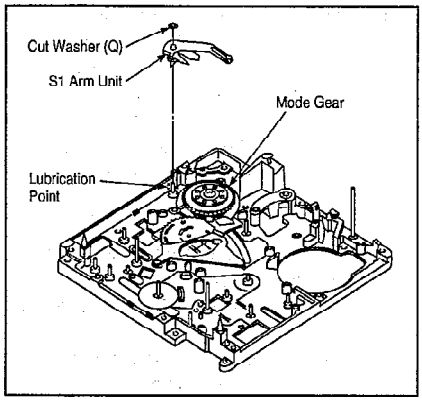


Fig. M24

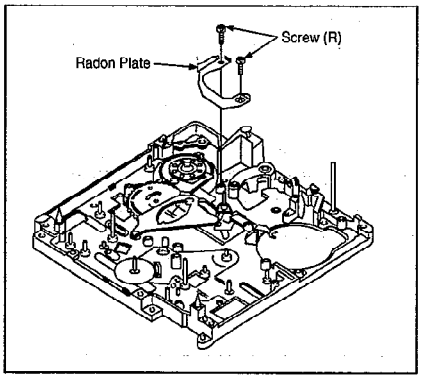


Fig. M25

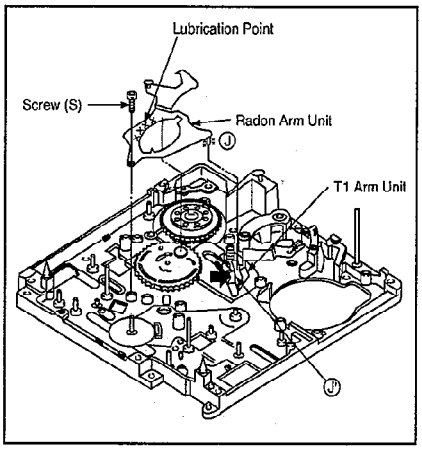


Fig. M26

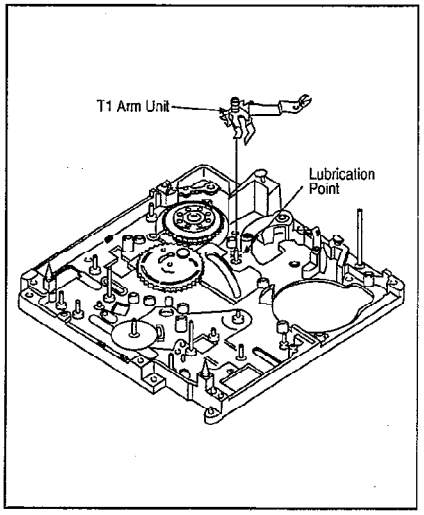


Fig. M27

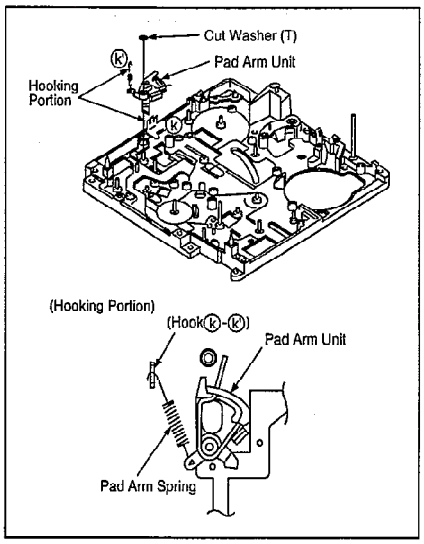


Fig. M28

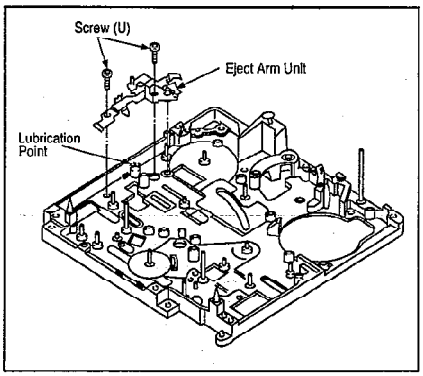


Fig. M29

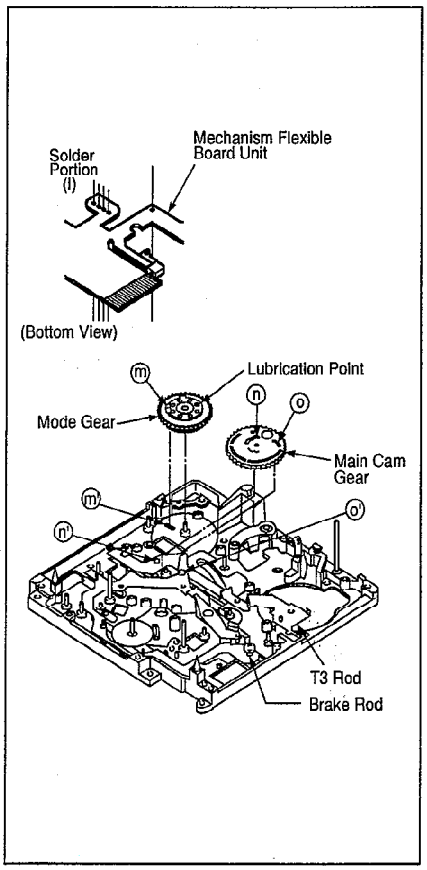


Fig. M30

(Note of installation) Fig. M31 Install the Main Cam Gear so that the hole A on the Mode Gear is aligned to the hole B on the Main Cam Gear.

Fig. M30 Shift the T3 Rod slowly in the right direction until guide (n) on the Main Cam Gear meets the projection (n') on the T3 Rod.
Shift the Brake Rod slowly in the right direction until guide (o) on the Main Cam Gear meets the projection (o') on the Brake Rod.

18. T3 Rod & Brake Rod Fig. M32 Remove the T3 Rod.
(Note of installation) The projection (p) and (q) on the T3 Rod meet the guide (p') and (q') on the Mechanism Chassis.

Fig. M33 Unscrew 2 screws (V) and remove the Brake Rod, Brake Rod Plate A and B.

(Note of installation) The projection (r) and (s) on the Brake Rod meet the guide (r') and (s') on the Mechanism Chassis.

19. Capstan Belt Fig. M34 Remove the Center Gear and Washer (W).
Unscrew screw (X) and remove LED Holder.
Remove Cut Washer (Y).

Fig. M35 (Loosen a black screw on the Cap. Motor as shown in Fig. M36.) Slightly lift up in the direction and slowly remove the Capstan Gear. Do not bend the Capstan Shaft.

(Note of installation) After installed Capstan Gear, confirm no warp of the Capstan Gear, no bend of the Capstan Gear Shaft and rotation of the Capstan and Center Gear smoothly.

Fig. M34 Remove the Capstan Belt.

20. Capstan Motor Unit Fig. M36 Unscrew 3 screws (Z) and remove Capstan Motor.
(Note of installation) After installed Capstan Motor, Cap. Tilt Adjustment is required.

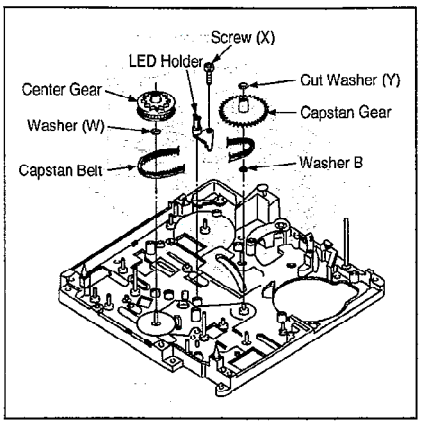


Fig. M34

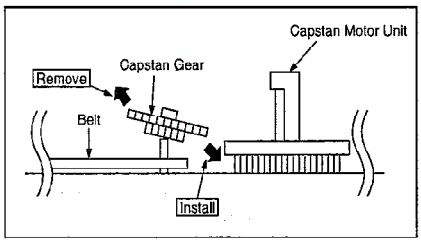


Fig. M35

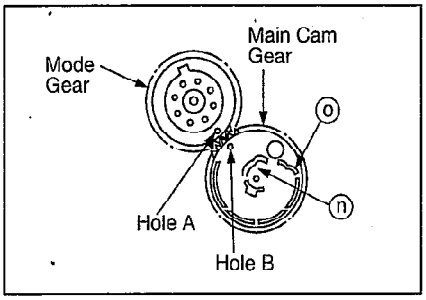


Fig. M31

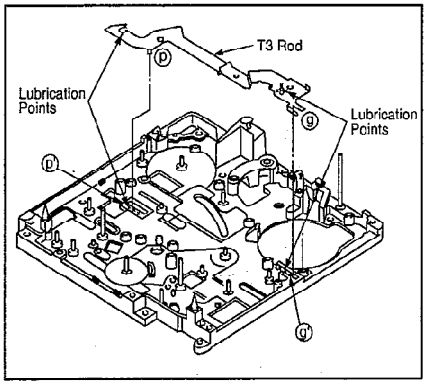


Fig. M32

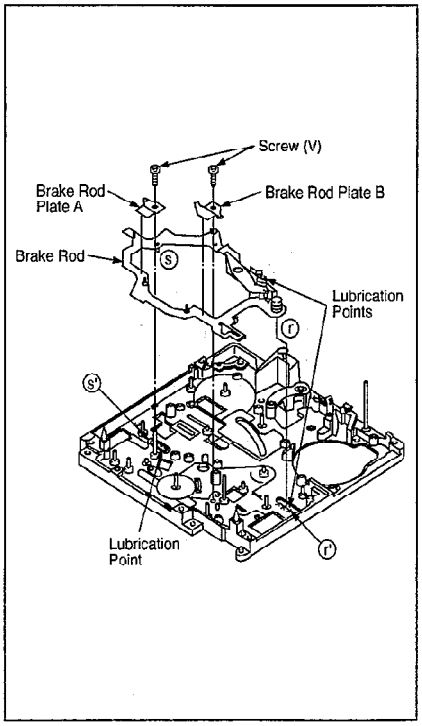


Fig. M33

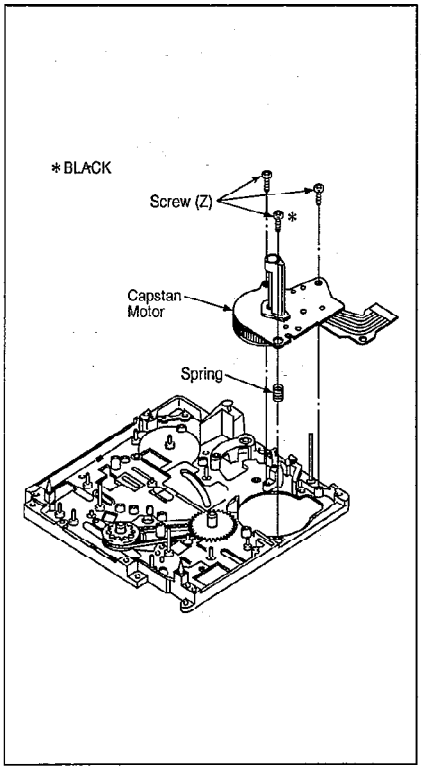


Fig. M36

3. Mechanical Adjustment Procedure

3-1. Test Equipment and Tools

The following equipment is required for Mechanical adjustment.

1. ———— Tatsujin Kit for adjustment with PC
   - VFKW1000AA PC-EVR I/F Unit
   - VFKW1000C PC-EVR 232C Cable
   - VFKW0F0142 PC-EVR I/F Board
   - VFKW0F0001 Common Cable (2 pcs)
   - VFKW0T0006 Sub I/F Board for Video
   - VFKW0T0008 Video Attachment Cable
   - ———— PC-EVR Software for NV-DX1
   - ———— Personal Computer

2. VFK1234 BER Counter

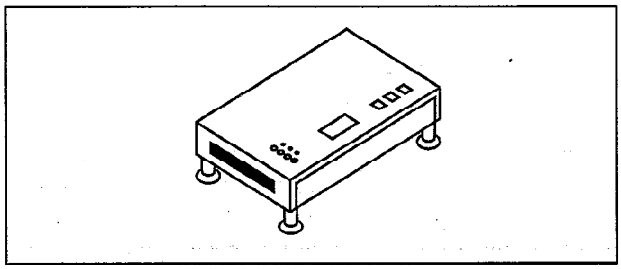


Fig. A1 For monitoring the Bit Error Rate

3. VFK1263 Counter Cables

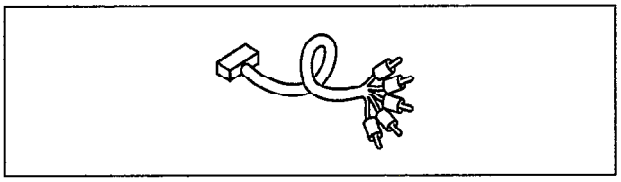


Fig. A2 For connection of the BER Counter

4. VFM3010EDS Alignment Tape

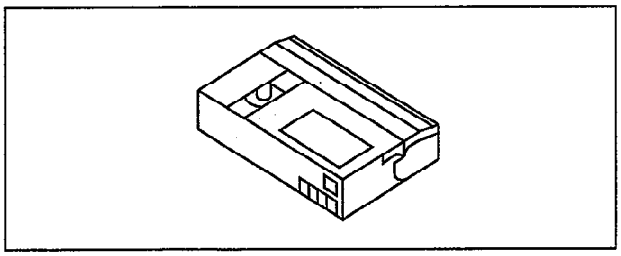


Fig. A3 For B.E.R. Adjustment

5. VFK1217 Sensor Cassette

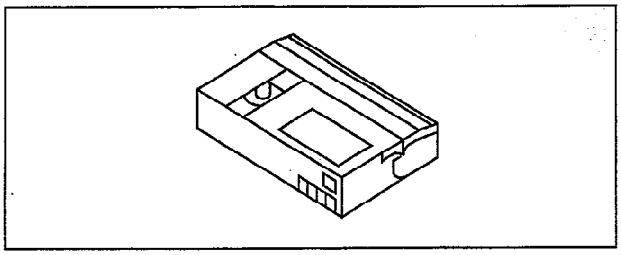


Fig. A4 For Sensor Adjustment

6. VFK1281 Mechanism Plate

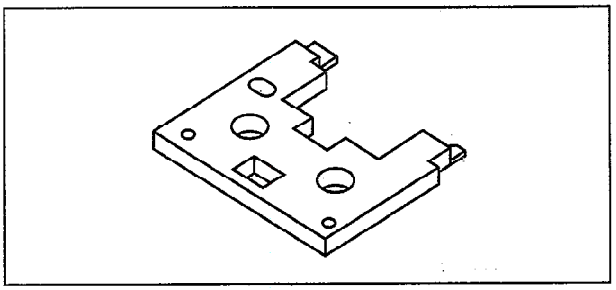


Fig. A5 For Post & Reel Height Adjustment

7. VFK1278 Post Adjustment Drive

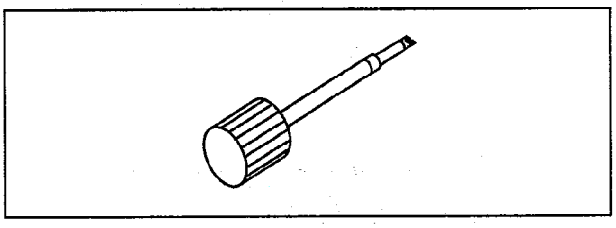


Fig. A6 For Post & Reel Height Adjustment

8. VFK1279 Cap. Tilt Adj. Plate

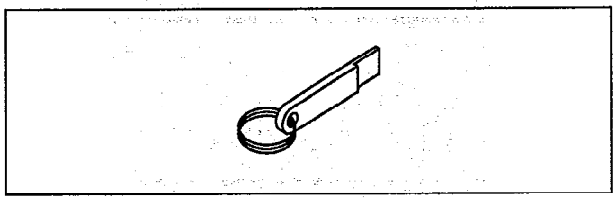


Fig. A7 For Capstan Tilt Adjustment

9. VFK1276 Loading Gear Driver

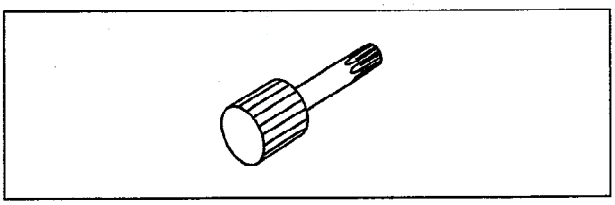


Fig. A8 For manual loading/unloading

3-2. Mechanism Adjustment

When the following parts is replaced, the mechanical adjustment is required.

Tension Post
T3 Post
Pad Arm Unit
Supply or Take-up Reel Tables
Capstan Motor

<PREPARATION>

Remove the Garage Unit and Loading Motor Unit as shown in Fig. M1 to M5.

1. Tension Post & T3 Post Height Adjustment

1. Set the Mechanism Plate (VFK1281) on the Mechanism Chassis.

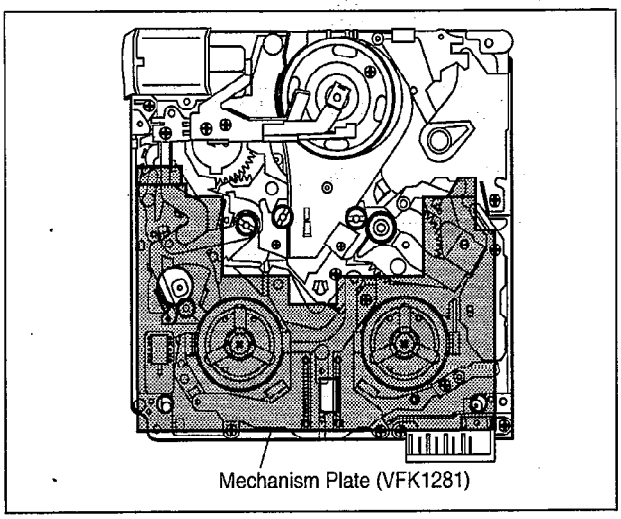


Fig. A9

2. Turn the Mode Gear fully counterclockwise to make full loading condition by using Loading Gear Driver (VFK1276).

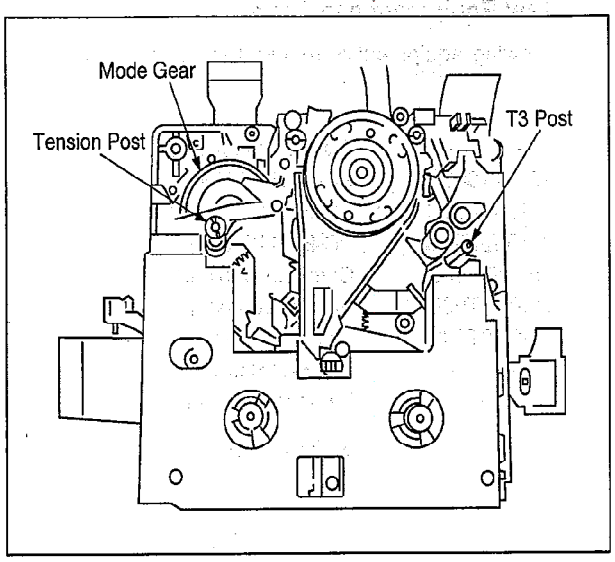


Fig. A10

3. Adjust the Tension Post so that the lower flange (A) point become same height level to the top surface (B) of 2nd step of the Mechanism Plate as shown in Fig. A11.
4. Adjust the T3 Post so that the lower flange (C) point become same height level to the top surface (D) of the Mechanism Plate as shown in Fig. A11.

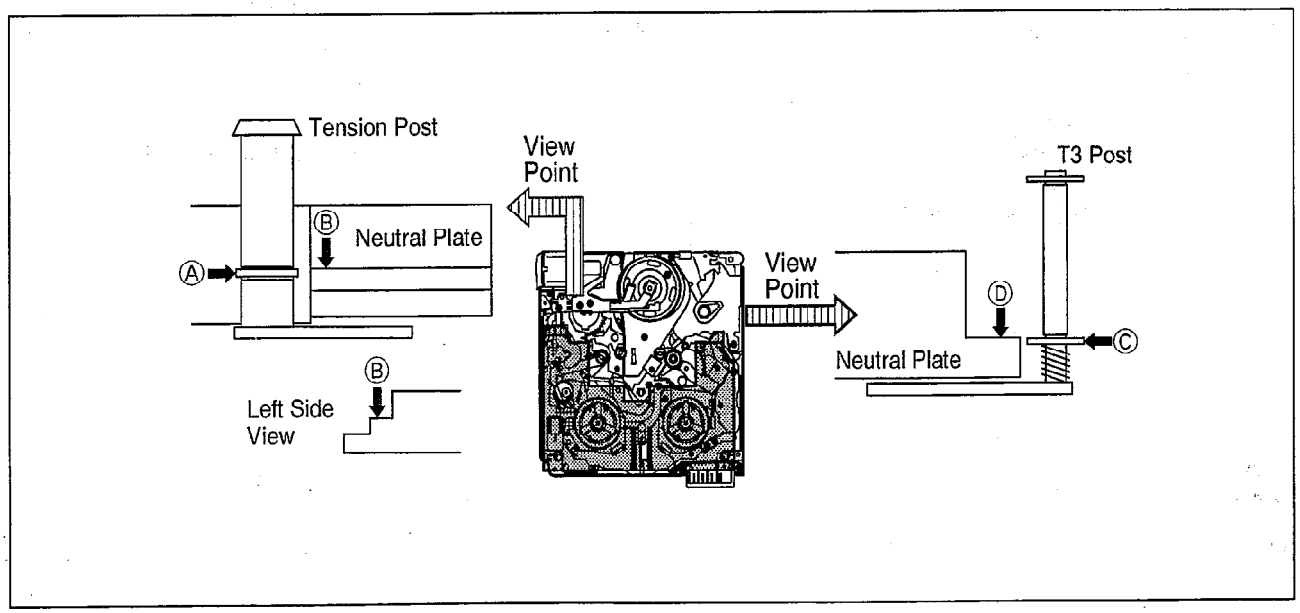


Fig. A11

2. Tension Post Position Adjustment

1. Turn the adjustment piece on the Pad Arm Unit to fully counterclockwise.
2. Turn the Mode Gear to set the Mechanism position in the Play mode, the Soft Brake of the Pad Arm Unit just touch to the Supply Reel Table as shown in Fig. A12.
3. Set the Mechanism Plate on the Mechanism Chassis as shown in Fig. A9.
4. Adjust the adjustment piece on the Pad Arm Unit to clockwise direction slowly until the surface of the Tension Post comes to 2nd step (F) on the Mechanism Plate as shown in Fig. A12.

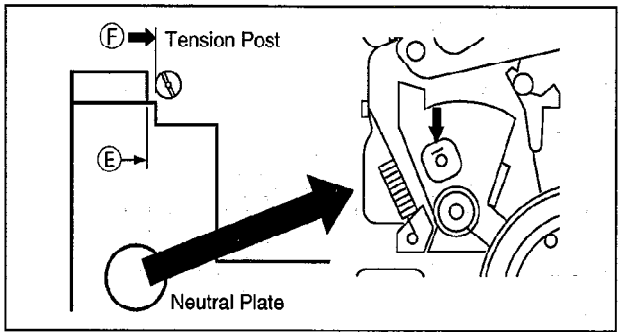


Fig. A12

5. After adjustment, turn the Mode Gear to unloading direction then turn back to loading direction, and make sure that position is correctly stop at above specification in Play position.

3. Supply & Take-up Reel Tables Height Adjustment

This adjustment should be perform for Supply or Take-up Reel Table one by one.

1. Turn the adjustment screw (A) on top of the Supply or Take-up Reel Table fully clockwise. Then, place the Mechanism Plate on the Mechanism Chassis as shown in Fig. A9.
2. Hold the Mechanism Plate by finger and slowly turn the adjustment screw to counterclockwise until just Reel Table rotating with adjustment screw as shown in Fig. A13.
3. Remove the Mechanism Plate and hold the Reel Table by finger then turn the adjustment screw counterclockwise to 45 degrees from above step point.

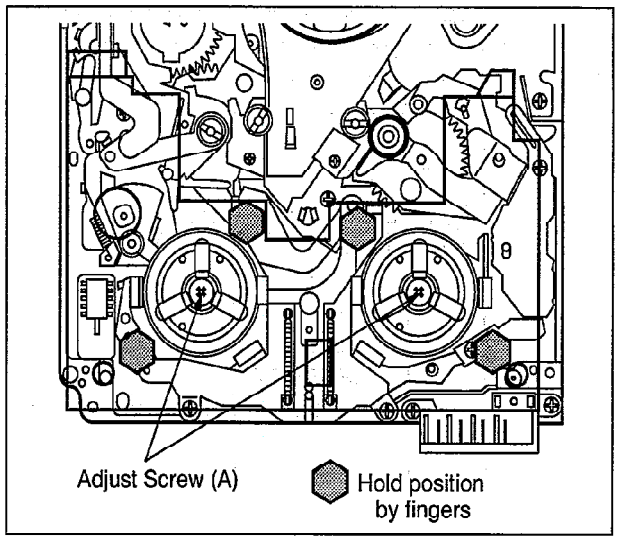


Fig. A13

4. Cap. Tilt Adjustment

1. Loosen the adjustment screw (G) and set the Cap. Tilt Adj. Plate (VFK1279) between Capstan Motor and Mechanism Chassis.
2. Turn the adjustment screw (G) to clockwise direction slowly until the Capstan Motor just touch to the Cap. Tilt Adj. Plate as shown in Fig. A14.

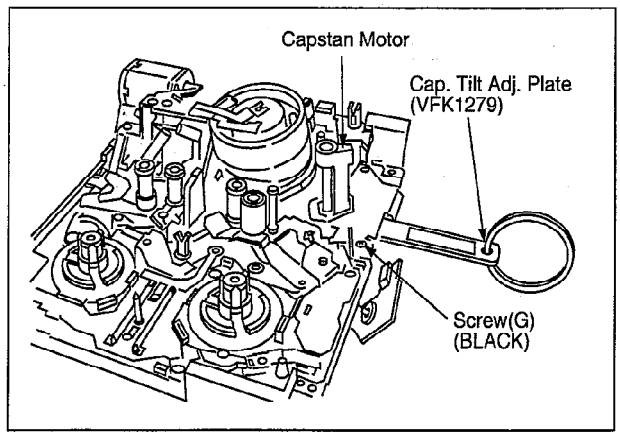


Fig. A14

5. Confirmation

5-1. Confirmation of tape travel

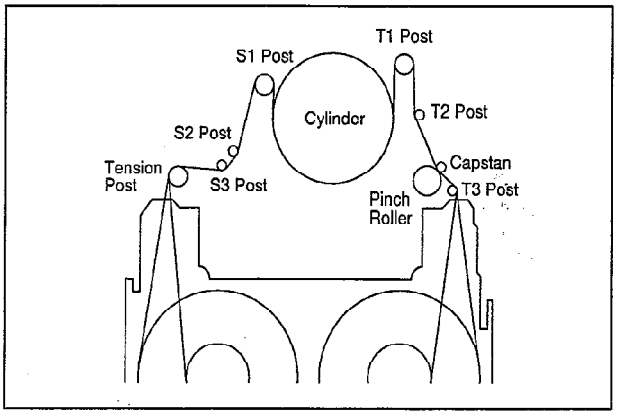


Fig. A15

Play back the cassette tape and confirm that the tape travels without curling at the upper and lower guides on the following posts in the Play and REV modes as shown in Fig. A17.

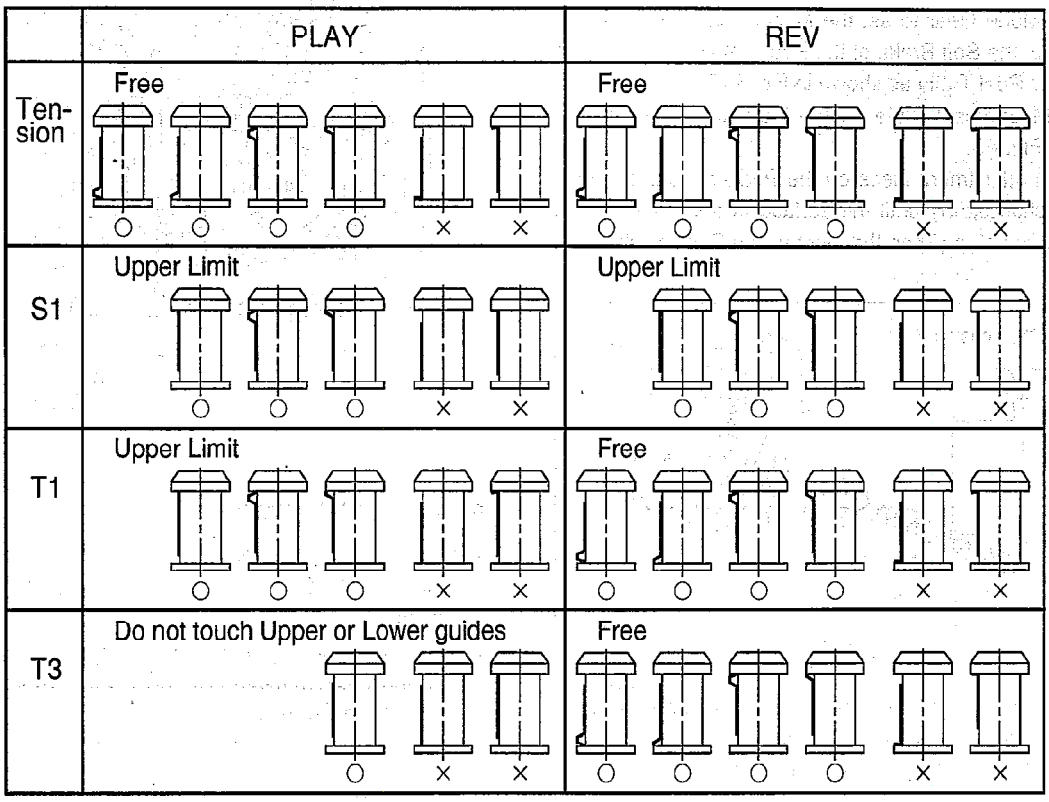


Fig. A16

If there are curing or damage at the guide of posts, readjust the height of the posts by turning the post with the Post Adjustment Driver.

5-2. Confirmation of the Envelope Output

1. Connect the "Tatsujin Kit" for video section as shown follows and play back a self recorded colour bar tape.

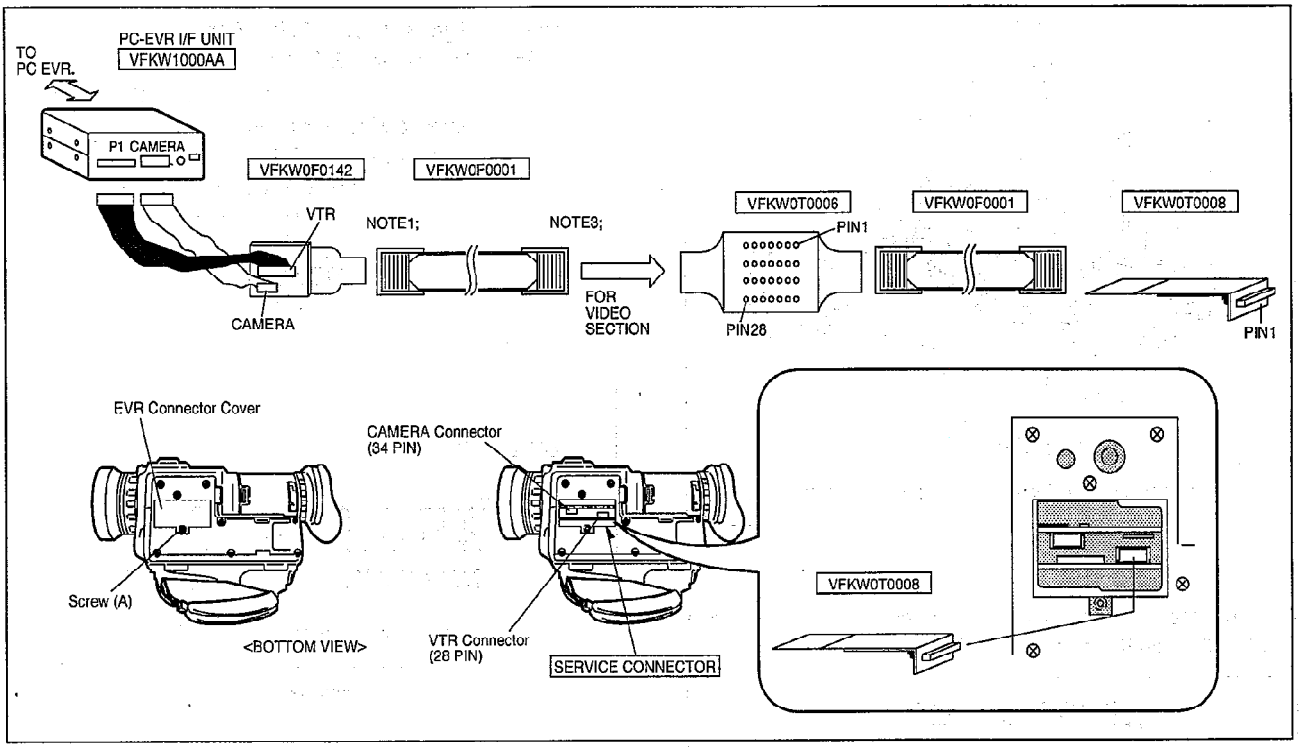


Fig. A17

2. Connect the oscilloscope to VTP1 (Envelope) and VTP2 (GND) on the SUB I/F Board (VFKW0T0006) and confirm that the envelope output is within following specification.
   Use VTP14 (HID) as a trigger.

   V1/V max. 0.9
   V2/V max. 0.9
   V3/V max. 0.9

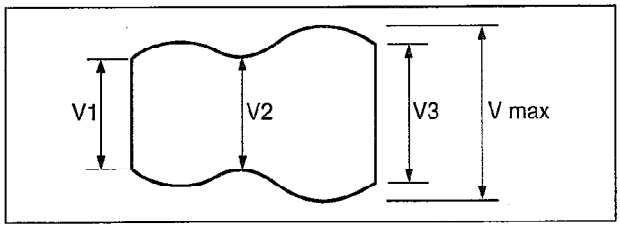


Fig. A18

3. If the level of the envelope signal is out of specification, readjust the Tension Post & T3 Post Height Adjustment.

<When adjusting the envelope signal within unit.>

1. Open the Cassette Door.
2. Unscrew screw (H) and release the Cassette Door Arm.

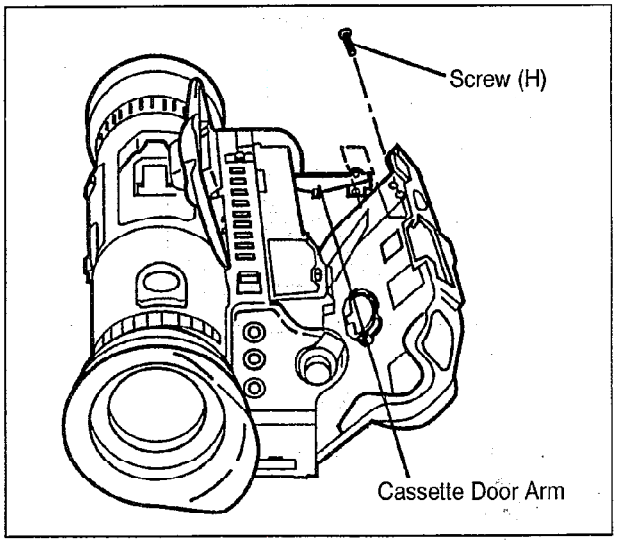


Fig. A19

3. Unscrew 2 screws (I) and remove the Cassette Cover Open/Close Detect Switch C.B.A. to inhibit the detection of the cassette door open.

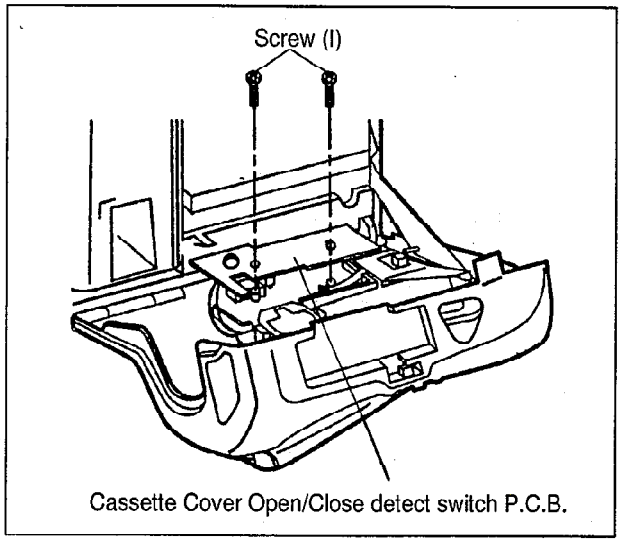


Fig. A20

4. Adjust the envelope signal by connecting the oscilloscope with "Tatsujin Kit" as shown in Fig. A17.

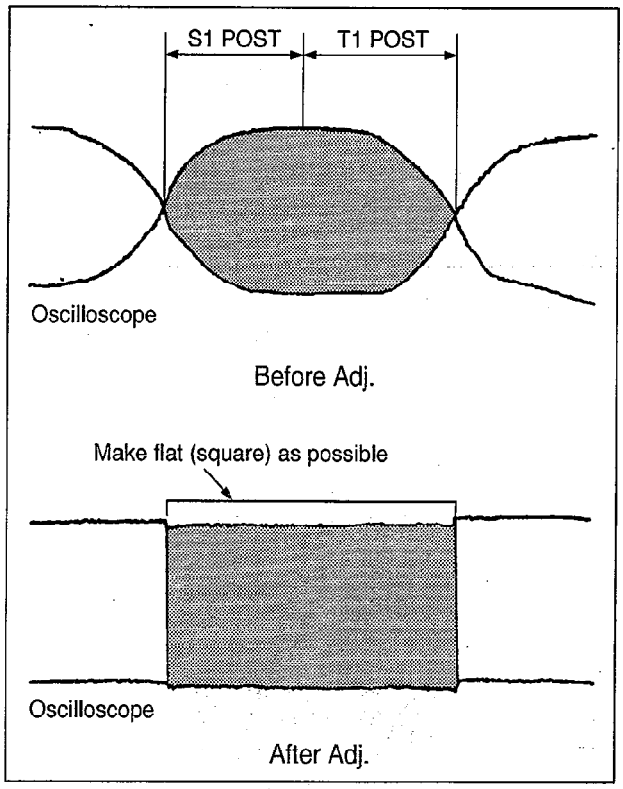


Fig. A21

6. Final Adjustment with BER Counter and "Tatsujin Kit".
   RF Adjustment
   Tp : VTP23 (SBE)
   Mode : PLAY
   Tape : Alignment Tape (Colour Bar)
   M.Eq. : Oscilloscope, B.E.R. Counter
   Spec. : B.E.R. counter number less than 200 on removed Mechanism unit.
   Confirm that the B.E.R. counter number less than 50 in the fully assembled condition.

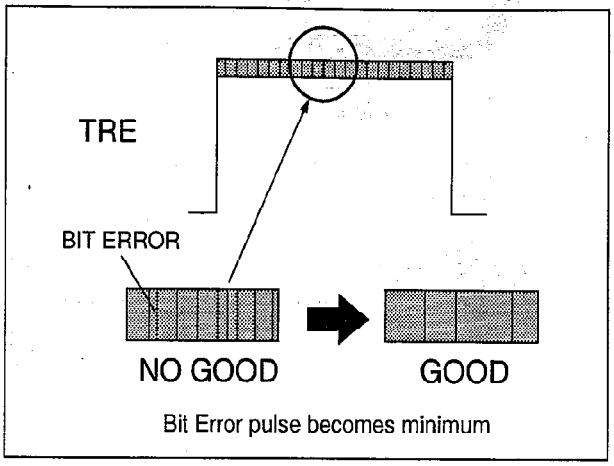


Fig. A22

<Preparation>

Supply DC power supply (6V to 12V) to B.E.R. (Bit Error Rate) Counter.
Connect B.E.R. Counter (VFK1234) with B.E.R. Counter Cable (VFK1263) to following TP on PC-EVR I/F Board.

Sub I/F Board BER Counter
Pin 9 [D. GND] ⇒ Black Clip
Pin 22 [CLK18] ⇒ Blue Clip
Pin 23 [SBE] ⇒ White Clip
Pin 24 [HID] ⇒ Red Clip

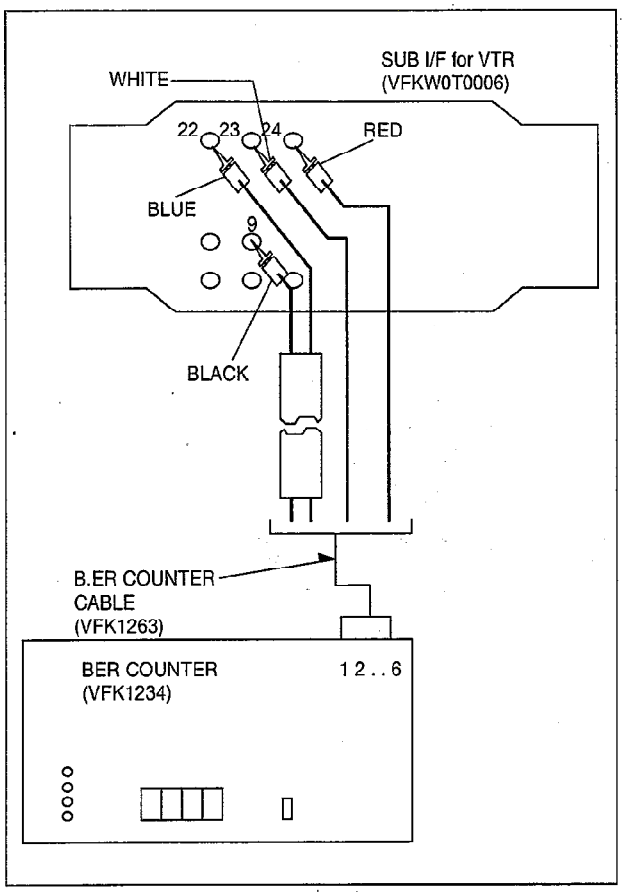
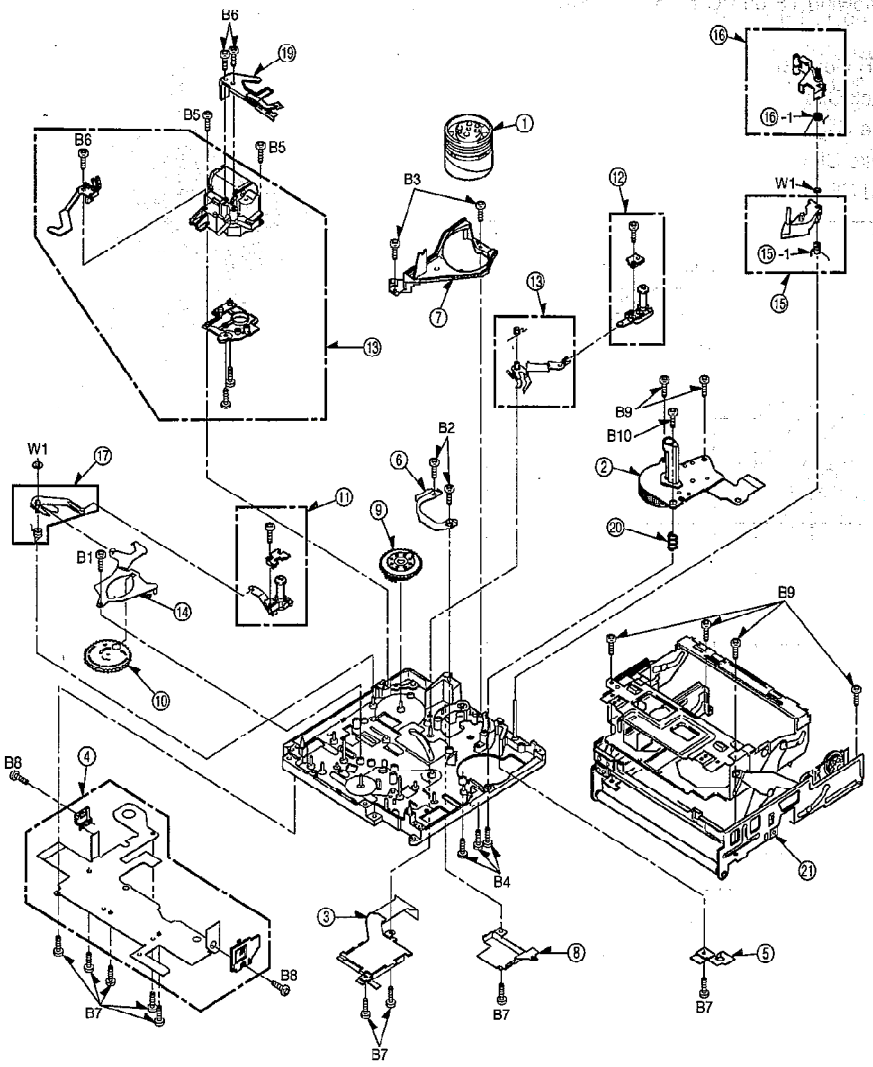


Fig. A23

Confirm Bit Error Rate count becomes less than 50 in the assembly conditon or less than 200 in the disassembly (Mechanism) condition for each head with B.E.R. Counter.
If not, repeat 5 point adjustments (DL, ERR DL, COMP LEV, CLK PHASE, ALPHA) again.
When the Sync Error happen, Bit Error Rate becomes less than 50 or 200. However, since this is not correct, please re-adjust it.

4. Exploded Views & Parts List

❶ *VCR Mechanism 1 Section*

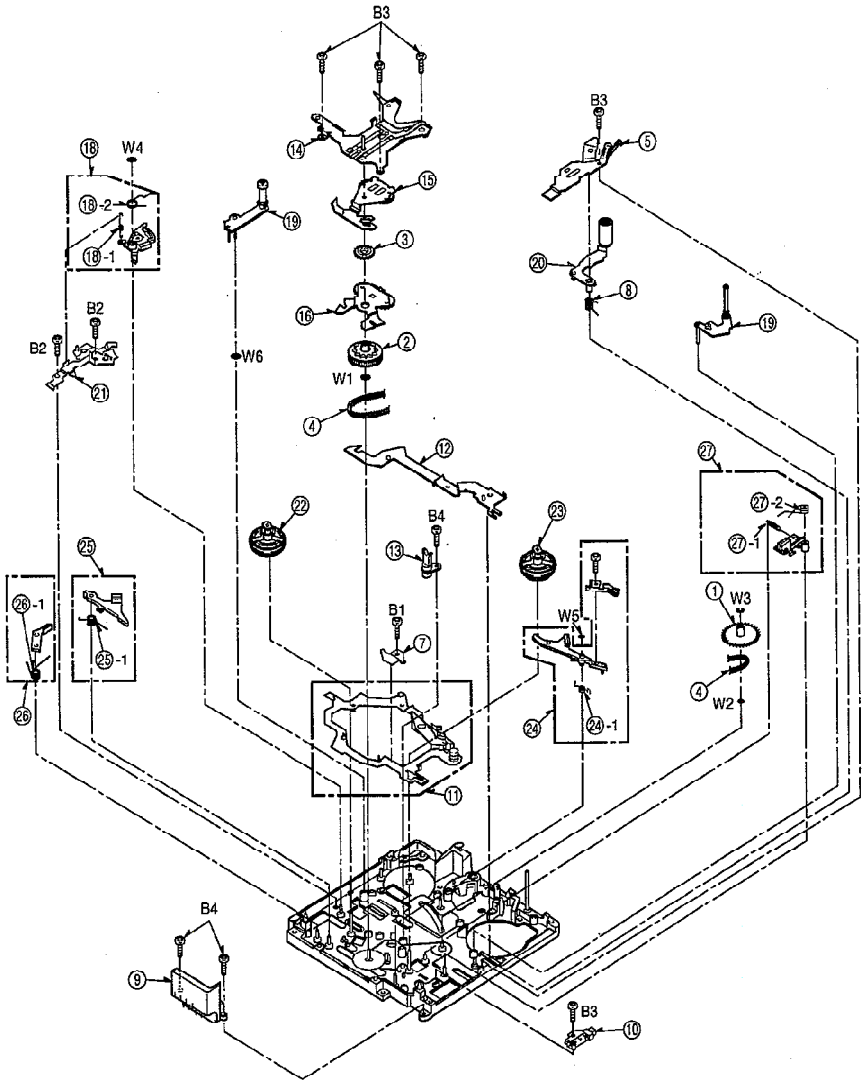


Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1 (1)	VEG1217	CYLINDER UNIT	1	For NV-DX1
1 (1)	VEG1438	CYLINDER UNIT	1	For NV-DS1, DS5
2 (1)	VEM0624	CAPSTAN MOTOR UNIT	1	
3 (1)	VEP05224A	HEAD AMP C.B.A.	1	For NV-DX1
3 (1)	VEP05352A	HEAD AMP C.B.A.	1	For NV-DS1, DS5
3-* (1)	VSC4214	HEAD AMP SHIELD CASE	1	For NV-DX1
3-* (1)	VSC4639	HEAD AMP SHIELD CASE	1	For NV-DS1, DS5
4 (1)	VES0711	FLEXIBLE CABLE	1	For NV-DX1
4 (1)	VES0856	FLEXIBLE CABLE	1	For NV-DS1, DS5
5 (1)	VMA9175	CAPSTAN COVER	1	For NV-DX1
5 (1)	VMA9708	CAPSTAN COVER	1	For NV-DS1, DS5
6 (1)	VMA9179	RADON PLATE	1	
7 (1)	VMD2373	RAIL	1	
8 (1)	VSC4215	SHIELD CASE	1	For NV-DX1
8 (1)	VSC4640	SHIELD CASE	1	For NV-DS1, DS5
9 (1)	VSR0114	MODE SW	1	
10 (1)	VXA5407	CAM GEAR	1	
11 (1)	VXA5409	S BOAT UNIT	1	
12 (1)	VXA5410	T BOAT UNIT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
13 (1)	VXA5417	GEAR BOX (LOADING MOTOR)_	1	
14 (1)	VXA5612	RADON COVER UNIT	1	
15 (1)	VXL2461	T2 ARM UNIT	1	
15-1 (1)	VMB2789	T2 ARM SPRING	1	
16 (1)	VXL2468	CLEANING ARM UNIT	1	
16-1 (1)	VMB2791	CLEANING ARM SPRING	1	
17 (1)	VXL2470	S1 ARM UNIT	1	
18 (1)	VXL2471	T1 ARM UNIT	1	
19 (1)	VMA9753	BRUSH ARM STOPPER	1	
20 (1)	VMB2777	CAPSTAN ADJ. SPRING	1	
21 (1)	VXA5387	GARAGE UNIT	1	
B1 (1)	VHD0878	SCREW	1	
B2 (1)	VHD0989	SCREW	2	
B3 (1)	XQN14+B4	SCREW	2	
B4 (1)	VXQ0439	SCREW	3	
B5 (1)	XQN14+B35	SCREW	2	
B6 (1)	XQN14+BQ4	SCREW	1	
B7 (1)	XQN14+B15	SCREW	9	
B8 (1)	XQN14+B2	SCREW	2	
B9 (1)	VHD0882	SCERW	6	
B10 (1)	XQN14+B4FZ	SCREW	1	
W51 (1)	VMX2027	WASHER	2	

❷ VCR Mechanism 2 Section



Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1 (2)	VDG1030	DRIVE PULLEY	1	
2 (2)	VDG1031	CENTER PULLEY	1	
3 (2)	VDG1032	CENTER GEAR	1	
4 (2)	VDV0265	TIMING BELT	1	
5 (2)	VMA9178	PINCH PRESSURE PLATE	1	
7 (2)	VMA9181	BRAKE ROD SUPPORT (T)	1	
8 (2)	VMB2776	SPRING	1	
9 (2)	VSH0057	MIC SWITCH	1	
10 (2)	VSJ0114	SOLENOID	1	
11 (2)	VXA5401	BRAKE ROD UNIT	1	
12 (2)	VXA5408	T3 ROD UNIT	1	
13 (2)	VXA5411	LED HOLDER UNIT	1	
14 (2)	VXA5412	COVER PLATE UNIT	1	
15 (2)	VXL2454	P IDLER ARM UNIT	1	
16 (2)	VXL2455	FR IDLER ARM UNIT	1	
17 (2)	VXL2456	TENSION ARM UNIT	1	
18 (2)	VXL2732	PAD ARM UNIT	1	
18-1 (2)	VMB2788	TENSION SPRING	1	
18-2 (2)	VMB2787	PAD ARM SPRING	1	
19 (2)	VXL2462	T3 ARM UNIT	1	
20 (2)	VXL2464	PINCH ARM UNIT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
21 (2)	VXL2466	EJECT ARM UNIT	1	
22 (2)	VXR0347	SUPPLY REEL TABLE	1	
23 (2)	VXR0348	TAKE UP REEL TABLE	1	
24 (2)	VXZ0319	TAKE UP MAIN BRAKE	1	
24-1 (2)	VMB2782	T MAIN BRAKE SPRING	1	
25 (2)	VXZ0321	SUPPLY MAIN BRAKE	1	
25-1 (2)	VMB2783	S MAIN BRAKE SPRING	1	
26 (2)	VXZ0322	FF BRAKE UNIT	1	
26-1 (2)	VMB2784	FF BRAKE SPRING	1	
27 (2)	VXZ0323	REV BRAKE UNIT	1	
27-1 (2)	VMB2786	REV SPRING	1	
27-2 (2)	VMB2785	REV BRAKE SPRING	1	
B1 (2)	VHD0882	SCREW	1	
B2 (2)	XQN14+B15	SCREW	2	
B3 (2)	VHD0883	SCREW	5	
B4 (2)	XQN14+B35	SCREW	3	
W1 (2)	VMX2503	WASHER	1	
W2 (2)	VMX2400	WASHER	1	
W3 (2)	VMX2504	WASHER	1	
W4 (2)	VMX2027	WASHER	3	
W5 (2)	VMX2028	WASHER	1	
W6 (2)	VMX2394	WASHER	1	

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